

JVC

SERVICE MANUAL

COLOR TELEVISION

**AV-30W767_{IS},
AV-30W777_{IS}**



BASIC CHASSIS

SR2

I'ArtTM
HDTV
HIGH-DEFINITION TELEVISION

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

BBE



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SPECIFICATION

Items		Contents
Dimensions (W × H × D)		84.2 cm × 59.9 m × 55.4 cm (33-1/4" × 23-5/8" × 21-7/8")
Mass		52 kg (115 lbs)
TV RF System (Analog / Digital)	Analog Digital	CCIR (M) ATSC terrestrial / Digital cable
Color System (Analog)		NTSC
Stereo System (Analog)		BTSC (Multi Channel Sound)
Teletext System (Analog)		Closed caption (T1-T4 / CC1-CC4)
TV Receiving Channels and Frequency (Analog)	VHF Low VHF High UHF CATV	02 ch - 06 ch : 54 MHz - 88 MHz 07 ch - 13 ch : 174 MHz - 216 MHz 14 ch - 69 ch : 470 MHz - 806 MHz 54 MHz - 804 MHz Low Band : 02 - 06 High Band : 07 - 13 Mid Band : 14 - 22 Super Band : 23 - 36 Hyper Band : 37 - 64 Ultra Band : 65 - 94, 100 - 135 Sub Mid Band : 01, 96 - 99
TV / CATV Total Channel		191 Channels
Intermediate Frequency (Analog)	Video IF Sound IF	45.75 MHz 41.25 MHz (4.5 MHz)
Color Sub Carrier Frequency (Analog)		3.58 MHz
Power Input		AC120 V, 60 Hz
Power Consumption		200 W
Picture Tube (Visible size)		76 cm (30") Measured diagonally (H: 67.2 cm × V: 38.2 cm)
High Voltage		30.0 kV(+1.3 kV/-1.3 kV) (at zero beam current)
Speaker		6.5 cm × 13 cm (2-1/2" × 5") × 2
Audio Power Output		10 W + 10 W
Antenna Terminal (VHF/UHF,ATSC/DIGITAL CABLE IN)		F-type connector, 75 Ω unbalanced, coaxial × 1
Video / Audio Input [INPUT-1/2/3/4]	Component Video [INPUT-1/2] 1125i / 750p 525p / 525i S-Video [INPUT-1/3/4] Video Audio	RCA pin jack × 6 Y : 1 V (p-p) (Sync signal: 0.35V(p-p), 3-value sync.), 75 Ω Pb/Pr : ±0.35 V(p-p), 75 Ω Y : 1 V (p-p), positive (Negative sync provided), 75 Ω Pb/Pr : 0.7 V(p-p), 75 Ω Mini-DIN 4 pin × 3 Y: 1 V (p-p), positive (Negative sync provided), 75 Ω C: 0.286V (p-p) (Burst signal), 75 Ω 1 V (p-p), positive (Negative sync provided), 75 Ω, RCA pin jack × 4 500 mV (rms), high impedance, RCA pin jack × 8
Digital Input	Video Audio	HDMI 2-row 19 pin connector × 2 (Digital-input terminal is not compatible with picture signals of personal computer) Digital: HDMI 2-row 19 pin connector × 2 Analog: 500 mV(rms) (-4 dBs), high impedance, RCA pin jack × 2
Audio Output		500 mV(rms) (-4 dBs), low impedance (400 Hz when modulated 100 %) ,RCA pin jack × 2
Digital Audio Optical Output		Digital SPDIF × 1
Remote Control Unit		RM-C1272G (AA/R6 / UM-3 battery × 2)

Design & specifications are subject to change without notice.

SECTION 1 PRECAUTION

1.1 SAFETY PRECAUTIONS

- (1) The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (Δ) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.
- (4) **Use isolation transformer when hot chassis.**
The chassis and any sub-chassis contained in some products are connected to one side of the AC power line. An isolation transformer of adequate capacity should be inserted between the product and the AC power supply point while performing any service on some products when the HOT chassis is exposed.
- (5) **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (\perp) side GND, the ISOLATED (NEUTRAL) : (\equiv) side GND and EARTH : (\oplus) side GND. Don't short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND and never measure the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND at the same time with a measuring apparatus (oscilloscope etc.). If above note will not be kept, a fuse or any parts will be broken.
- (6) If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See B1 POWER SUPPLY check).
- (7) The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.
- (8) Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10k Ω 2W resistor to the anode button.
- (9) When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

(10) Isolation Check (Safety for Electrical Shock Hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

a) Dielectric Strength Test

The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 1100V AC (r.m.s.) for a period of one second.

(... Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.) This method of test requires a test equipment not generally found in the service trade.

b) Leakage Current Check

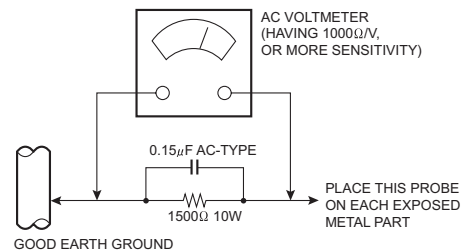
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).

However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

Alternate Check Method

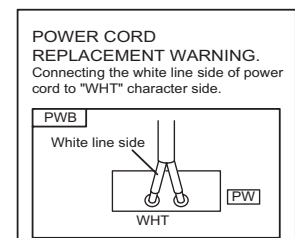
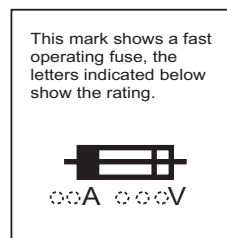
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 Ω per volt or more sensitivity in the following manner. Connect a 1500 Ω 10W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).

However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



(11) High voltage hold down circuit check.

After repair of the high voltage hold down circuit, this circuit shall be checked to operate correctly. See item "How to check the high voltage hold down circuit".



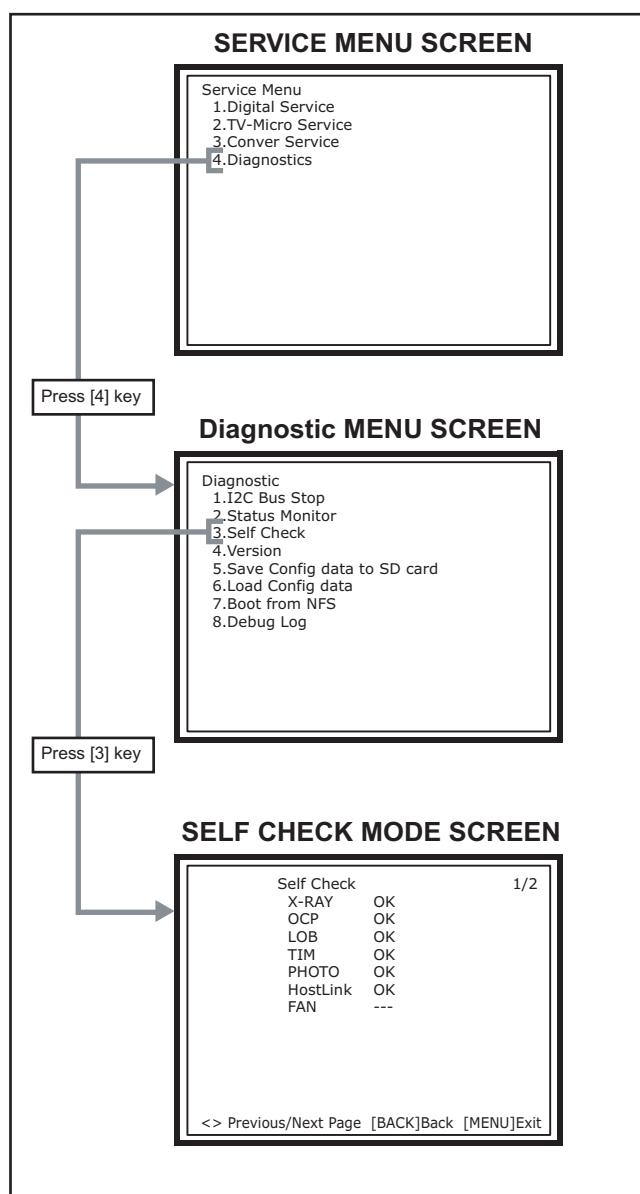
SECTION 2

SPECIFIC SERVICE INSTRUCTIONS

2.1 SYSTEM SETTING

Be sure to carry out the following operation at the end of the procedure.

- (1) Set to "0 minutes" using the **[SLEEP TIMER]** key.
- (2) While "0 minutes" is displayed, press the **[VIDEO STATUS]** key and **[DISPLAY]** key simultaneously, then enter the SERVICE MODE.
- (3) Press the **[4]** key (4.Diagnostics) in the SERVICE MENU SCREEN.
- (4) Press the **[3]** key (3.Self check) in the DIAGNOSTICS MODE screen.
- (5) The SELF CHECK MODE screen is displayed.
- (6) Turn off the power by pressing the **[POWER]** key on the remote control unit.



2.2 FEATURES

Built in ATSC (Advanced Television Systems Committee) TUNER

This TV can receive both Digital broadcasting (ATSC) and Analog broadcasting.

SMART CAPTION

Smart caption will appear when you press the MUTING button, only on channels where the broadcast contains CLOSED CAPTION information.

SMART SOUND

Decreases high sound levels, giving a regulated sound level.

FLAT SQUARE CRT

It became legible from any position by CRT with few reflection and reflect lumps on the flat screen.

DIGITAL COMB FILTER

By the 3D digital comb filter, the refreshed image can be seen.

VIDEO STATUS

Expression of a favorite screen can be chosen by the VIDEO STATUS function.

DIGITAL INPUT

Digital-in will display when any picture signal in Digital-in is displayed.

V-CHIP

Since the V-CHIP is built in, it can choose, view and listen to a healthy program.

MTS STEREO

The voice multiplex function of the MTS system is built in. (MTS = Multi channel Television Sound system)

NATURAL CINEMA

Watching the movie or animation, press the Natural Cinema to adjust the out line of the images to make thin more sharp.

A.H.S.

Adds a more spacious surround sound. Music gives basic effect and movie for more effect.

BBE [AV-30W777/S]

High definition audio adds natural, clear and extraordinary sound quality to any program.

VIDEO INPUT LABEL

This function is used to label video input connections for the onscreen displays.

2.3 MAIN DIFFERENCE LIST

Item	AV-30W767/S	AV-30W777/S
BBE	NO	YES
MAIN PWB	SSR-1503A-M2	SSR-1502A-M2

2.4 TECHNICAL INFORMATION

2.4.1 MAIN MICRO COMPUTER (CPU) FUNCTION

Pin No.	Pin name	I/O	Function	Pin No.	Pin name	I/O	Function
1	P60/SBT2	-	Not used	51	ATSC_TX	I	Serial communication for ATSC tuner
2	P_MU	O	Not used : Picture muting [Muting: H]	52	ATSC_RX	O	Serial communication for ATSC tuner
3	M_MUTE	O	Audio output muting [Muting: H]	53	P85	-	Not used
4	A_MUTE	O	Audio muting [Muting: H]	54	VREF+	I	Reference voltage [+3.3V Fixed]
5	ROTATION_L	O	Rotation control (left)	55	CONVER_TX	I	Not used : Serial communication for convergence control
6	ROTATION_R	O	Rotation control (right)	56	CONVER_RX	O	Not used : Serial communication for convergence control
7	P52/TM14OA	-	Not used	57	SDA0	I/O	I2C bus (data) for EEPROM
8	P53/TM14OB	-	Not used	58	SCL0	O	I2C bus (clock) for EEPROM
9	DEF_RESET	O	Not used : Reset for deflection	59	P92/TM10IOB	-	Not used
10	RD_RQ	I	DTVM update	60	P93/TM10IOC	-	Not used
11	POW_LED	O	Lighting for Power/OnTimer LED [Power ON or TIMER ON: H]	61	AVSS	-	GND
12	DIMMER_LED	O	Not used : Brightness control for Power/OnTimer LED	62	DIGI_PHOT	I	Photo sensor for DIGITAL-IN illegal copy protection
13	P20/SBT2	O	Not used : Clock for ATSC tuner communication	63	P95/AN1	-	Not used
14	P21/SBI2	I	Not used : Data receive for ATSC tuner communication	64	P96/AN2	-	Not used
15	P22/SBO2	O	Not used : Data transmission for ATSC tuner communication	65	P97/AN3	-	Not used
16	P23	O	Not used : Data request for ATSC tuner communication	66	VDD	I	+3.3V
17	VDD	I	+3.3V	67	DIGI_PRO	O	Not used : HDMI control
18	FOSC	O	Not used	68	P71/SBI0	-	Not used
19	VSS	-	GND	69	P72/SBO0	-	Not used
20	XI	I	Not used : Low speed oscillator	70	P73	-	Not used
21	XO	O	Not used : Low speed oscillator	71	P74/SBI1	-	Not used
22	VDD	I	+3.3V	72	P75/SBO1	-	Not used
23	OSCI	I	Oscillation for system clock (16MHz)	73	SBD5	I/O	On-board writing for flash memory
24	OSCO	O	Oscillation for system clock (16MHz)	74	SBT5	I	On-board writing for flash memory
25	MODE	I	Single chip mode for CPU [H: Fixed]	75	NMI	I	+3.3V
26	TU_POWER	O	Not used : Power control for tuner	76	HDMI_CEC	O	Not used
27	P25	-	Not used	77	REMOCON	I	Remote control
28	TU_RESET	O	Reset for tuner [Reset: H]	78	V_SYNC	I	Not used : V. sync signal
29	PANORAMA	O	Not used : Panorama mode for deflection	79	IRQ3/PA3	-	Not used
30	P30/KI0	-	Not used	80	POWERGOOD	I	Not used : Power error detection [NG: H]
31	P31/KI1	-	Not used	81	PA5	-	Not used
32	P32/KI2	-	Not used	82	RST	I	CPU reset [Reset: L]
33	P33/KI3	-	Not used	83	VDD	I	+3.3V
34	AVDD	I	+3.3V	84	SCL1	O	I2C bus (clock) for RGB & DEF PROCESS (IC301)
35	P34/KI4	-	Not used	85	SDA1	I/O	I2C bus (data) for RGB & DEF PROCESS (IC301)
36	P35/KI5	-	Not used	86	P02	-	Not used
37	OCF	I	B1 over current protect detection [Protection: H]	87	P03	-	Not used
38	B1_POWER	O	B1 relay control [Power on: L]	88	P04	-	Not used
39	LOB_PRO	I	Low-B protect detection [Protection: H]	89	P05	-	Not used
40	MECA_SW	I	Machine SW interrupt detection [SW Pushing: L]	90	P06	-	Not used
41	MAIN_POW	O	Main power control [Power on: L]	91	P07	-	Not used
42	LB_POWER	O	Low-B power control [Power on: L]	92	VSS	-	GND
43	VREF-	I	Reference voltage [GND Fixed]	93	P10/TM8IOA	-	Not used
44	X-RAYPRO	I	X-ray protect detection [Protection: L]	94	P11/TM8IOB	-	Not used
45	P45/AN5	-	Not used	95	P12/TM11IOA	-	Not used
46	KEY2	I	Front key scan voltage (CH+, VOL+/-)	96	P13/TM11IOB	-	Not used
47	KEY1	I	Front key scan voltage (CH-, MENU)	97	P14/TM11IC	-	Not used
48	P80/TM14OA	-	Not used	98	P15/TM12IOA	-	Not used
49	P81/TM14OB	-	Not used	99	P16/TM12IOB	-	Not used
50	AC_IN	I	AC 50/60Hz for timer clock	100	P17/TM12IC	-	Not used

SECTION 3 DISASSEMBLY

3.1 DISASSEMBLY PROCEDURE

CAUTION AT DISASSEMBLY:

- Be sure to perform the **SYSTEM SETTING**, at the end of the procedure.
- Make sure that the power cord is disconnected from the outlet.
- Pay special attention not to break or damage the parts.
- When removing each board, remove the connectors as required. Taking notes of the connecting points (connector numbers) makes service procedure manageable.
- Make sure that there is no bent or stain on the connectors before inserting, and firmly insert the connectors.

3.1.1 REMOVING THE REAR COVER

- Unplug the power plug.
 - (1) Remove the 13 screws **[A]**.
 - (2) Remove the REAR COVER toward you.

NOTE:

When reinstalling the REAR COVER, carefully push it inward after inserting the chassis into the REAR COVER groove.

3.1.2 REMOVING THE AV TERMINAL BOARD

- Remove the REAR COVER.
 - (1) Remove the 8 screws **[B]**, 2 screws **[C]** and 2 screws **[D]**.
 - (2) Withdraw the AV TERMINAL BOARD toward you.

3.1.3 REMOVING THE CHASSIS

- Remove the REAR COVER.
 - (1) Slightly raise the both sides of the CHASSIS by hand and remove the 2 claws under the both sides of the CHASSIS from the front cabinet.
 - (2) Withdraw the CHASSIS backward.
(If necessary, remove the wire clamps, connectors etc.)

3.1.4 REMOVING THE SPEAKER

- Remove the REAR COVER.
- Remove the CHASSIS.
 - (1) Remove the 2 screws **[E]**
 - (2) Remove the SPEAKER toward you.
 - (3) Follow the same steps when removing the other hand SPEAKER.

3.1.5 REMOVING THE FRONT CONTROL PWB

- Remove the REAR COVER.
- Remove the CHASSIS.
 - (1) Remove the 2 screws **[F]**.
 - (2) Withdraw the FRONT CONTROL PWB.

3.1.6 REMOVING THE SD CARD PWB

- Remove the REAR COVER.
- Remove the AV TERMINAL BOARD.
 - (1) Remove the 2 screws **[G]**.
 - (2) Remove the SD CARD PWB.

3.1.7 REMOVING THE SIDE CONTROL PWB AND THE CONTROL BASE

- Remove the REAR COVER.
 - (1) Remove the 1 screw **[H]** and 1 claw.
 - (2) Slightly sift the back and raises the CONTROL BASE.
 - (3) Remove the 3 screws **[J]**.
 - (4) Remove the SIDE CONTROL PWB from the CONTROL BASE.

NOTE:

If necessary, take off the wire clamps, connectors etc.

3.1.8 REMOVING THE ATSC TUNER PWB

- Remove the REAR COVER.
- Remove the AV TERMINAL BOARD.
 - (1) Remove the 1 screw **[K]**.
 - (2) Remove the ATSC TUNER PWB.

3.1.9 CHECKING THE PW BOARD

- To check the PW Board from backside.
 - (1) Pull out the CHASSIS. (Refer to REMOVING THE CHASSIS).
 - (2) Erect the CHASSIS vertically with the FRONT side facing up so that you can easily check the back side of the PW Board.

CAUTION:

- When erecting the CHASSIS, be careful so that there will be no contact with other PWB.
- Before turning the power on, make sure that the CRT earth wire and other connectors are properly connected.

3.1.10 WIRE CLAMPING AND CABLE TYING

- (1) Be sure to clamp the wire.
- (2) Never remove the cable tie used for tying the wires together.
Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

CAUTION :

Make sure to perform the "SYSTEM SETTING" according to before page, when the ATSC TUNER PWB is replaced.

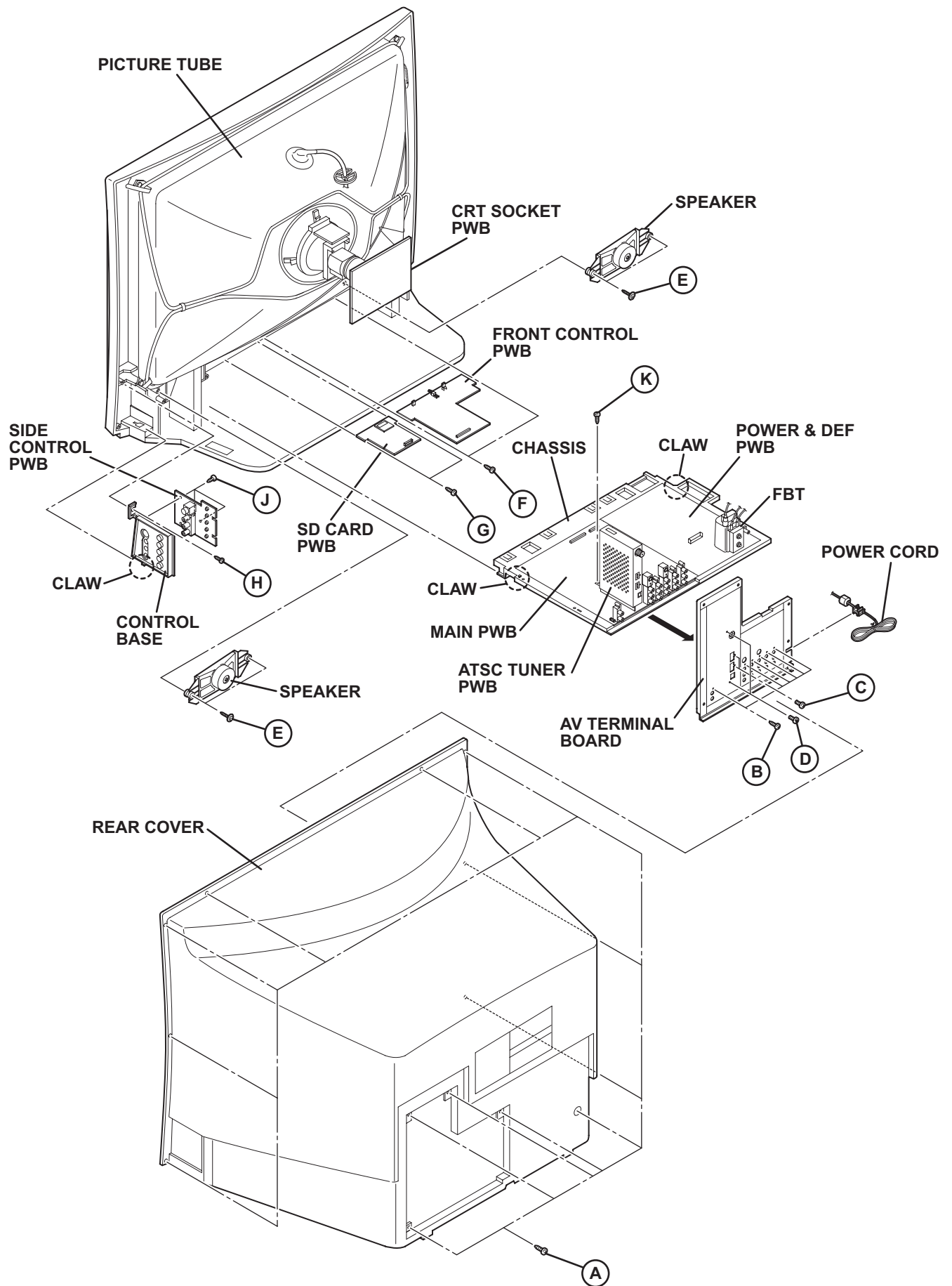


Fig.1

3.1.11 REMOVING THE CRT

NOTE:

- Replacement of the CRT should be performed by 2 or more persons.
 - After removing the REAR COVER, CHASSIS etc.,
- (1) Putting the CRT change table on soft cloth, the CRT change table should also be covered with such soft cloth (shown in Fig. 2).
 - (2) While keeping the surface of CRT down, mount the TV set on the CRT change table balanced will as shown in Fig. 2.
 - (3) Remove 4 screws marked by arrows with a box type screwdriver as shown in Fig. 3.

NOTE:

Since the cabinet will drop when screws have been removed, be sure to support the cabinet with hands.

- (4) After 4 screws have been removed, put the cabinet slowly on cloth (At this time, be carefully so as not to damage the front surface of the cabinet) shown in Fig. 4.

NOTE:

- The CRT should be assembled according to the opposite sequence of its dismantling steps.
- The CRT change table should preferably be smaller than the CRT surface, and its height be about 35cm.

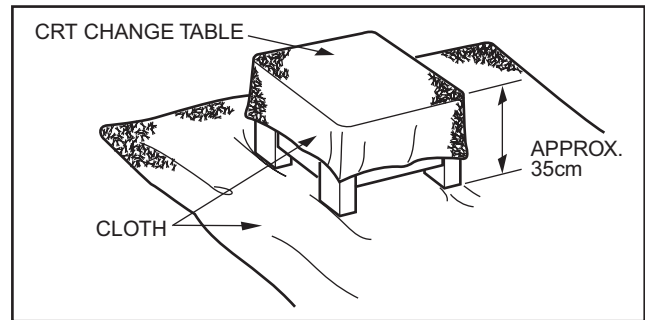


Fig.2

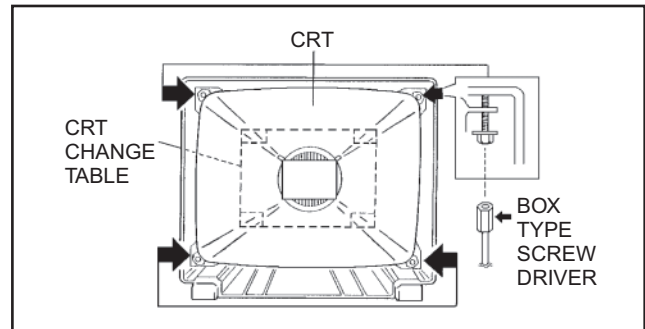


Fig.3

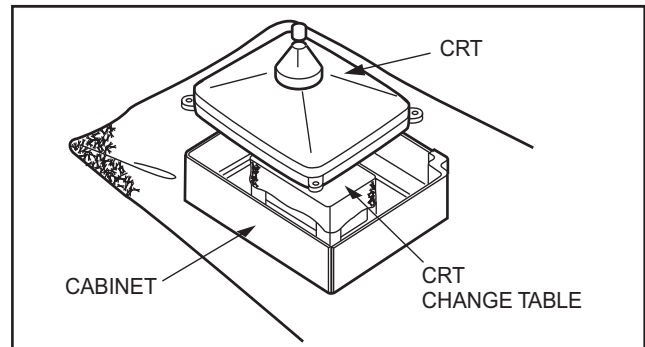


Fig.4

COATING OF SILICON GREASE FOR ELECTRICAL INSULATION ON THE CRT ANODE CAP SECTION.

Subsequent to replacement of the CRT and HV transformer or repair of the anode cap, etc. by dismantling them, be sure to coat silicon grease for electrical insulation as shown in Fig.5. Wipe around the anode button with clean and dry cloth. (Fig.5) Coat silicon grease on the section around the anode button. At this time, take care so that any silicon greases dose not sticks to the anode button. (Fig.6)

Silicon grease product No. KS-650N

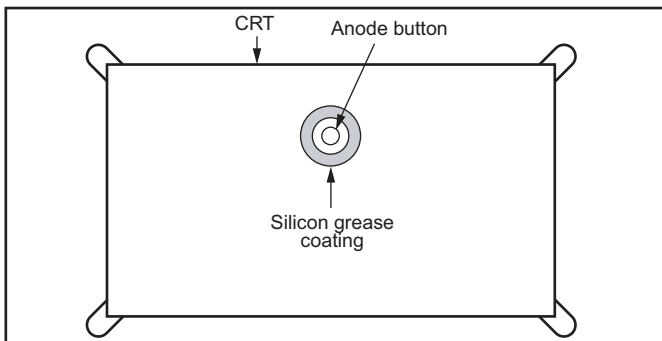


Fig.5

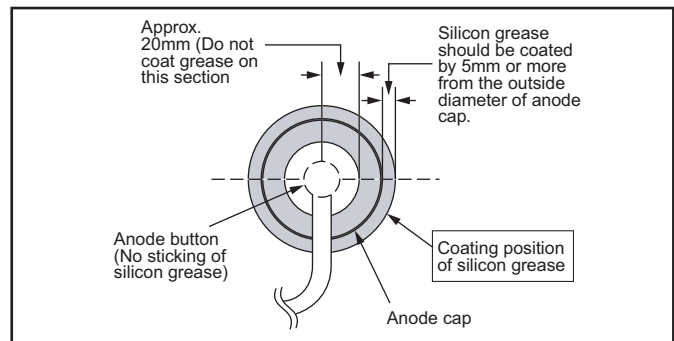


Fig.6

3.2 MEMORY IC REPLACEMENT

- This model uses the memory IC.
- This memory IC stores data for proper operation of the video and drive circuits.
- When replacing, be sure to use an IC containing this (initial value) data.

3.2.1 MEMORY IC TABLE

Symbol	Number of pins	Mounting PWB	Main content of data
IC702	8-pin	MAIN PWB	Setting value of Initial setting data is memorized.

3.2.2 MEMORY IC REPLACEMENT PROCEDURE

1. Power off

Switch off the power and disconnect the power plug.

2. Replace the memory IC

Be sure to use a memory IC written with the initial setting data.

3. Power on

Connect the power cord to the wall outlet and switch on the power.

4. Receiving channel setting

Refer to the OPERATING INSTRUCTIONS (USER'S GUIDE) and set the receive channels (Channels Preset) as described.

5. User settings

Check the user setting items according to the "FACTORY SETTING ITEM" table.

Where these do not agree, refer to the OPERATING INSTRUCTIONS (USER'S GUIDE) and set the items as described.

6. SERVICE MODE setting

Verify what to set in the SERVICE MODE, and set whatever is necessary(Fig.1) .

Refer to the SERVICE ADJUSTMENT for setting.

3.2.3 SERVICE MODE SETTING ITEMS

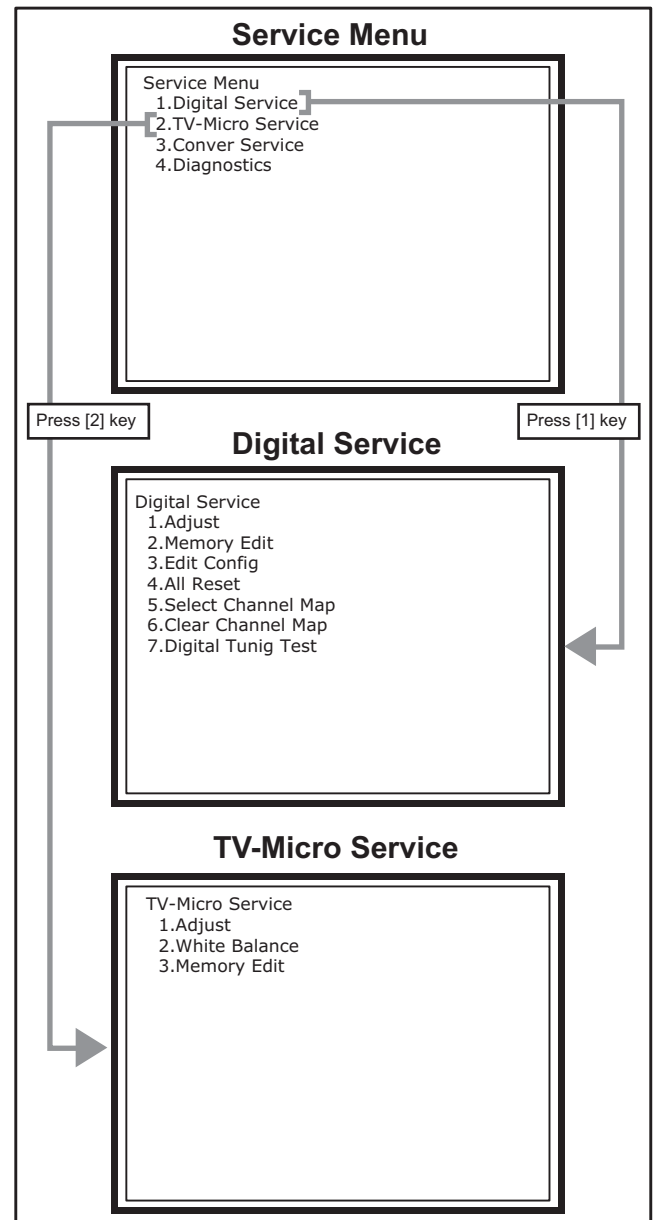


Fig.1

Setting items	Settings	Item No.
1. Digital Service		
Audio system setting	Adjust	A001~A010
2. TV-Micro Service		
Video system setting	Adjust	S001 - S060
Deflection system	Adjust	D001 - D071
Factory system setting	Fixed	F001

3.2.4 SETTINGS OF FACTORY SHIPMENT

3.2.4.1 BUTTON OPERATION

Setting item	Setting position
POWER	Off
CHANNEL	CABLE-02
VOLUME	10

3.2.4.2 REMOTE CONTROL DIRECT OPERATION

Setting item		Setting position
INPUT		TV
CHANNEL		CABLE-02
VOLUME		10
MUTING		OFF
DISPLAY		OFF
SLEEP TIMER		OFF
VIDEO STATUS		DYNAMIC
THEATER PRO		OFF
C.C.		OFF
MTS		STEREO
ASPECT		PANORAMA
SOUND	A.H.S.	OFF
	BBE	ON [only AV-30W777/s]
	Smart Sound	OFF

3.2.4.3 REMOTE CONTROL MENU OPERATION

(1) INITIAL SETUP

Setting item	Setting position
Noise Muting	On
Language	English
Front Panel Lock	Off
V-Chip	Off
Set Lock Code	0000
Closed Caption	Auto(CC1/T1)
Auto Shut Off	Off
Tilt Correction	0 (Center)

(2) TUNER SETUP

Setting item	Setting position
Auto Tuner Setup	Unnecessary to set

(3) SOUND ADJUST

Setting item	Setting position
Bass	0
Treble	0
Balance	0
Optical Out	PCM
Turn On Volume	Current
Volume Limit	50

(4) CLOCK / TIMERS

Setting item	Setting position
Set Clock	Manual
On / Off Timer	Off

(5) EXTERNAL INPUT

Setting item	Setting position
Digital-In Size	Auto
Digital-In1 Audio	Auto
Video Input Label	All blank

(6) PICTURE ADJUST

Customers can adjust the picture setting of menu screen as their own like but the picture standard value during factory shipment is as below.

Setting item	TINT	COLOR	PICTURE	BRIGHT	DETAIL	COLOR TEMPERATURE	NOISE REDUCTION	VSM	NATURAL CINEMA
STANDARD	0	0	0	0	0	LOW	OFF	ON	OFF
DINAMIC	0	0	+6	0	+10	HIGH	OFF	ON	OFF
THEATER	-3	-3	-10	+1	0	HIGH	OFF	OFF	OFF
GAME	0	+7	-10	0	+7	LOW	OFF	ON	OFF

3.3 REPLACEMENT OF CHIP COMPONENT

3.3.1 CAUTIONS

- (1) Avoid heating for more than 3 seconds.
- (2) Do not rub the electrodes and the resist parts of the pattern.
- (3) When removing a chip part, melt the solder adequately.
- (4) Do not reuse a chip part after removing it.

3.3.2 SOLDERING IRON

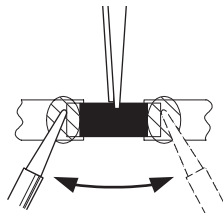
- (1) Use a high insulation soldering iron with a thin pointed end of it.
- (2) A 30w soldering iron is recommended for easily removing parts.

3.3.3 REPLACEMENT STEPS

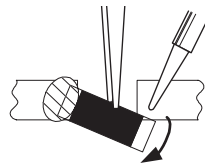
1. How to remove Chip parts

[Resistors, capacitors, etc.]

- (1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



- (2) Shift with the tweezers and remove the chip part.

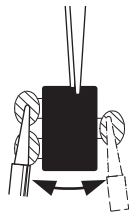


[Transistors, diodes, variable resistors, etc.]

- (1) Apply extra solder to each lead.



- (2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.



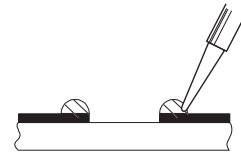
NOTE :

After removing the part, remove remaining solder from the pattern.

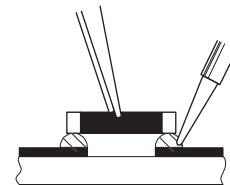
2. How to install Chip parts

[Resistors, capacitors, etc.]

- (1) Apply solder to the pattern as indicated in the figure.

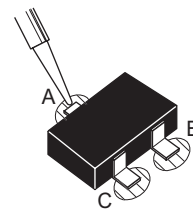


- (2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

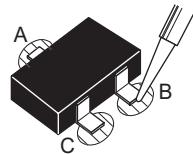


[Transistors, diodes, variable resistors, etc.]

- (1) Apply solder to the pattern as indicated in the figure.
- (2) Grasp the chip part with tweezers and place it on the solder.
- (3) First solder lead **A** as indicated in the figure.



- (4) Then solder leads **B** and **C**.



SECTION 4

ADJUSTMENT

4.1 ADJUSTMENT PREPARATION

- (1) There are 2 ways of adjusting this TV : One is with the **REMOTE CONTROL UNIT** and the other is the conventional method using adjustment parts and components.
- (2) The adjustment using the **REMOTE CONTROL UNIT** is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- (3) Make sure that connection is correctly made AC to AC power source.
- (4) Turn on the power of the TV and measuring instruments for warming up for at least 30 minutes before starting adjustments.
- (5) If the receive or input signal is not specified, use the most appropriate signal for adjustment.
- (6) Never touch the parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.

4.2 PRESET SETTING BEFORE ADJUSTMENTS

Unless otherwise specified in the adjustment items, preset the following functions with the REMOTE CONTROL UNIT.

Item	Preset value
VIDEO STATUS	STANDARD
TINT, COLOR, PICTURE, BRIGHT, DETAIL	Center (00)
COLOR TEMPERATURE	LOW
NOISE REDUCTION	OFF
VSM	ON
NATURAL CINEMA	OFF
BASS, TREBLE, BALANCE	Center (00)
A.H.S.	OFF
BBE	ON
ASPECT	FULL

4.3 MEASURING INSTRUMENT AND FIXTURES

- DC voltmeter (or digital voltmeter)
- Oscilloscope
- Signal generator (Pattern generator)
[NTSC (480i) / 480p / 1080i]
- TV audio multiplex signal generator
- Remote control unit

4.4 ADJUSTMENT ITEMS

■ CHECK ITEM

- B1 VOLTAGE check
- HV POTENTIAL check
- X-RAY PROTECTOR OPERATION-1 check
- X-RAY PROTECTOR OPERATION-2 check

■ FOCUS

- FOCUS adjustment

■ DEFLECTION CIRCUIT [2.TV-Micro Service]

- V. POSITION / V. SIZE / V. LINEARITY adjustment
- H. POSITION / H. SIZE / SIDE PIN / TRAPEZIUM adjustment

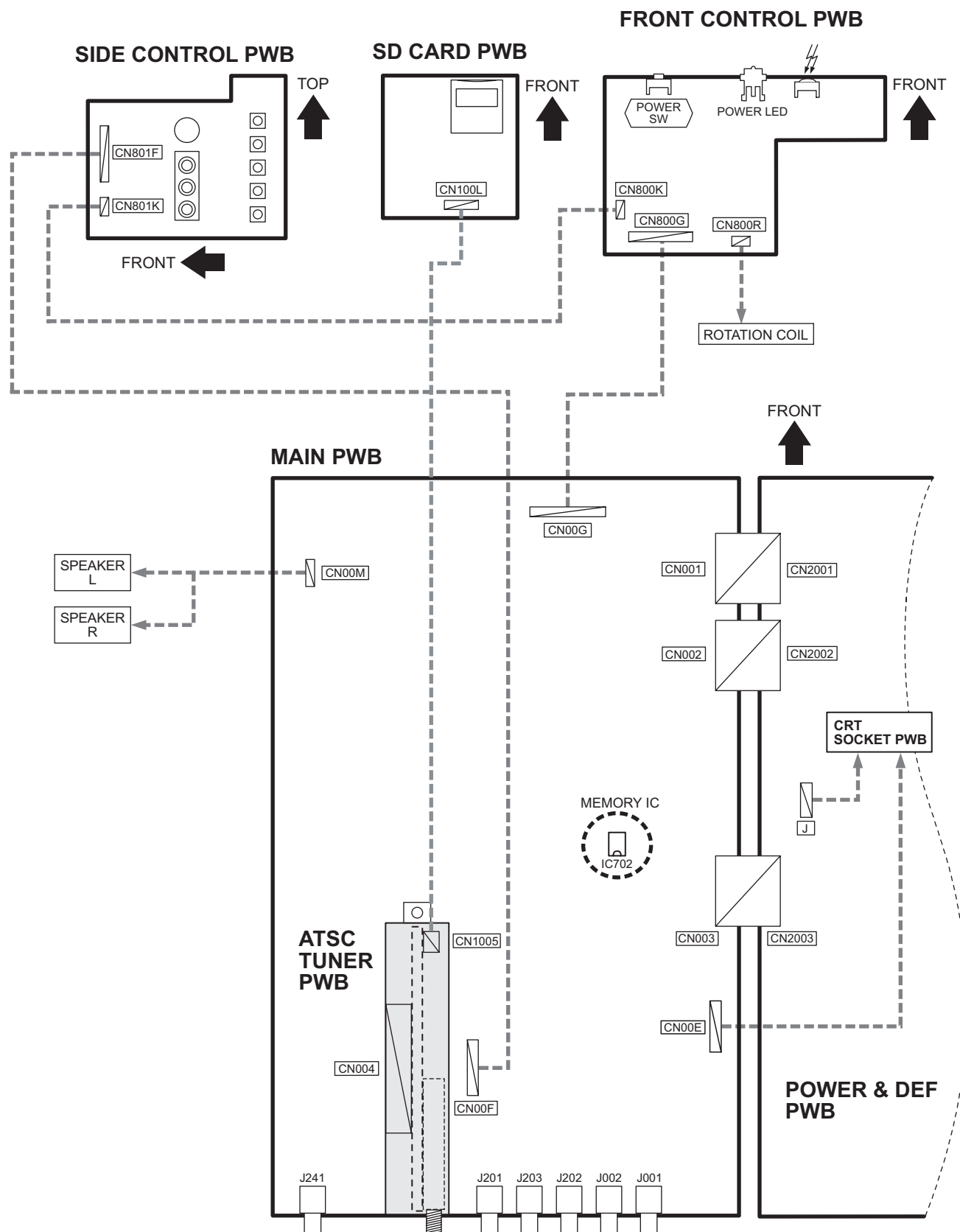
■ VIDEO CIRCUIT [2.TV-Micro Service]

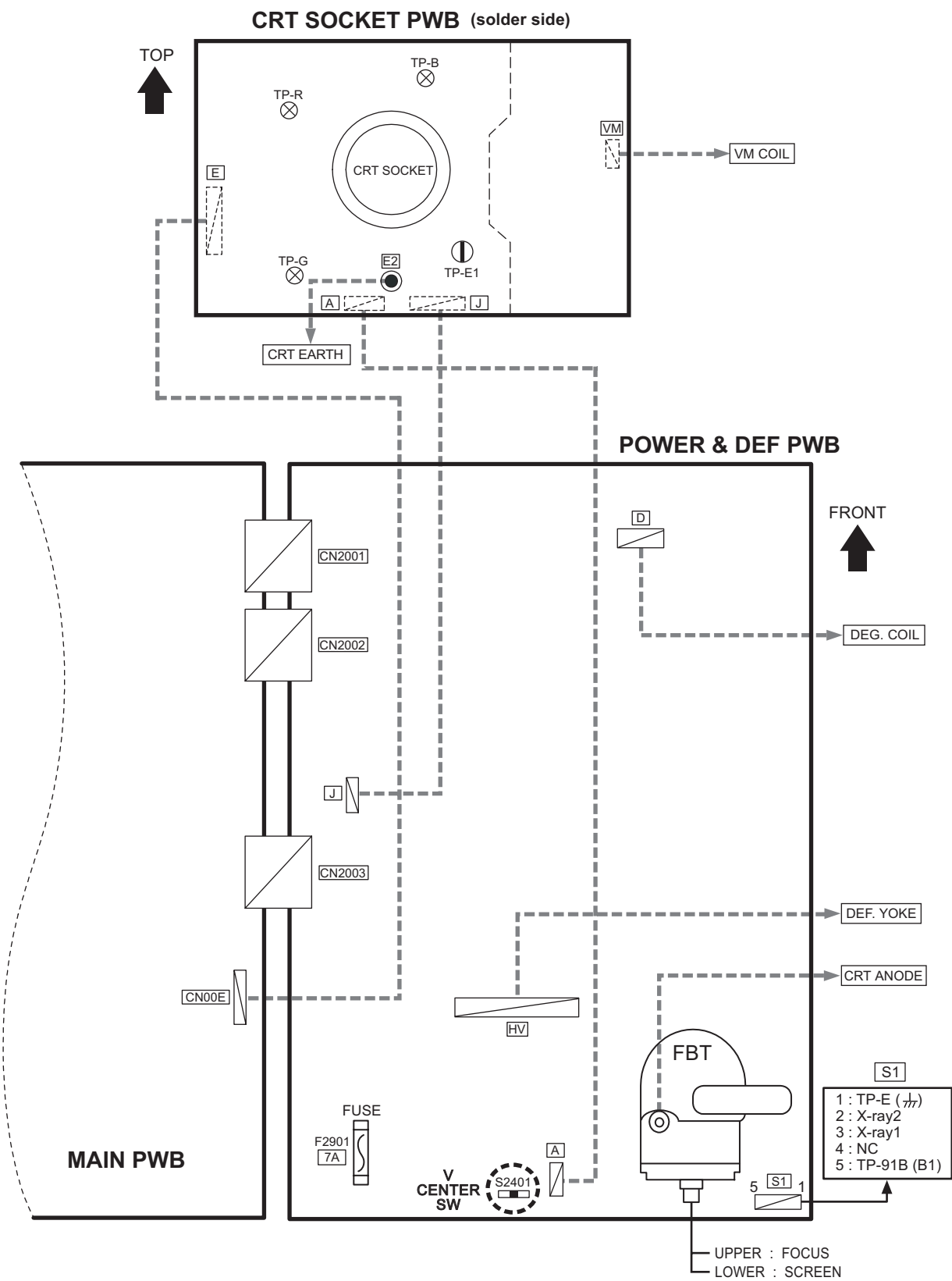
- WHITE BALANCE(High Light & Low Light) adjustment
- SUB BRIGHT adjustment
- SUB CONTRAST adjustment
- SUB COLOR adjustment
- SUB TINT adjustment

■ MTS CIRCUIT [1.Digital Service]

- MTS INPUT LEVEL adjustment
- MTS SEPARATION adjustment

4.5 ADJUSTMENT LOCATIONS





4.6 SERVICE MODE

4.6.1 BASIC OPERATION OF SERVICE MODE

Operate the SERVICE MODE with the REMOTE CONTROL UNIT.

4.6.1.1 HOW TO ENTER THE SERVICE MODE

- (1) Set to "0 minutes" using the [SLEEP TIMER] key.
- (2) While "0 minutes" is displayed, press the [VIDEO STATUS] key and [DISPLAY] key simultaneously.
- (3) Enter the SERVICE MODE (Fig.1)

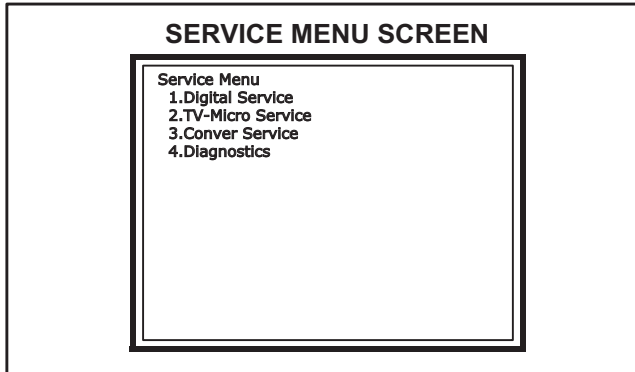


Fig.1

4.6.1.2 HOW TO EXIT THE SERVICE MODE

Press the [MENU] key to exit the SERVICE MODE.

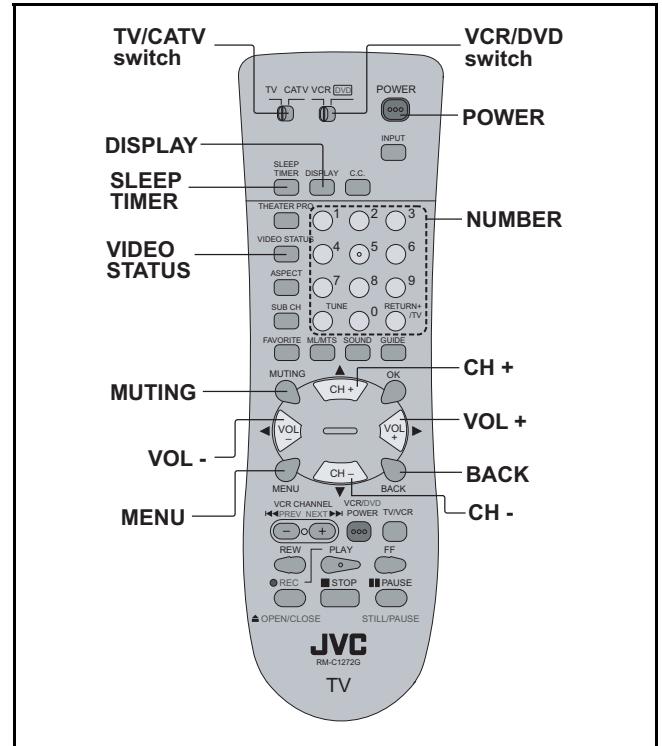
4.6.1.3 HOW TO STORE OF SETTING VALUE

When adjustment is completed, press the [MUTING] key to memorize the adjustment value.

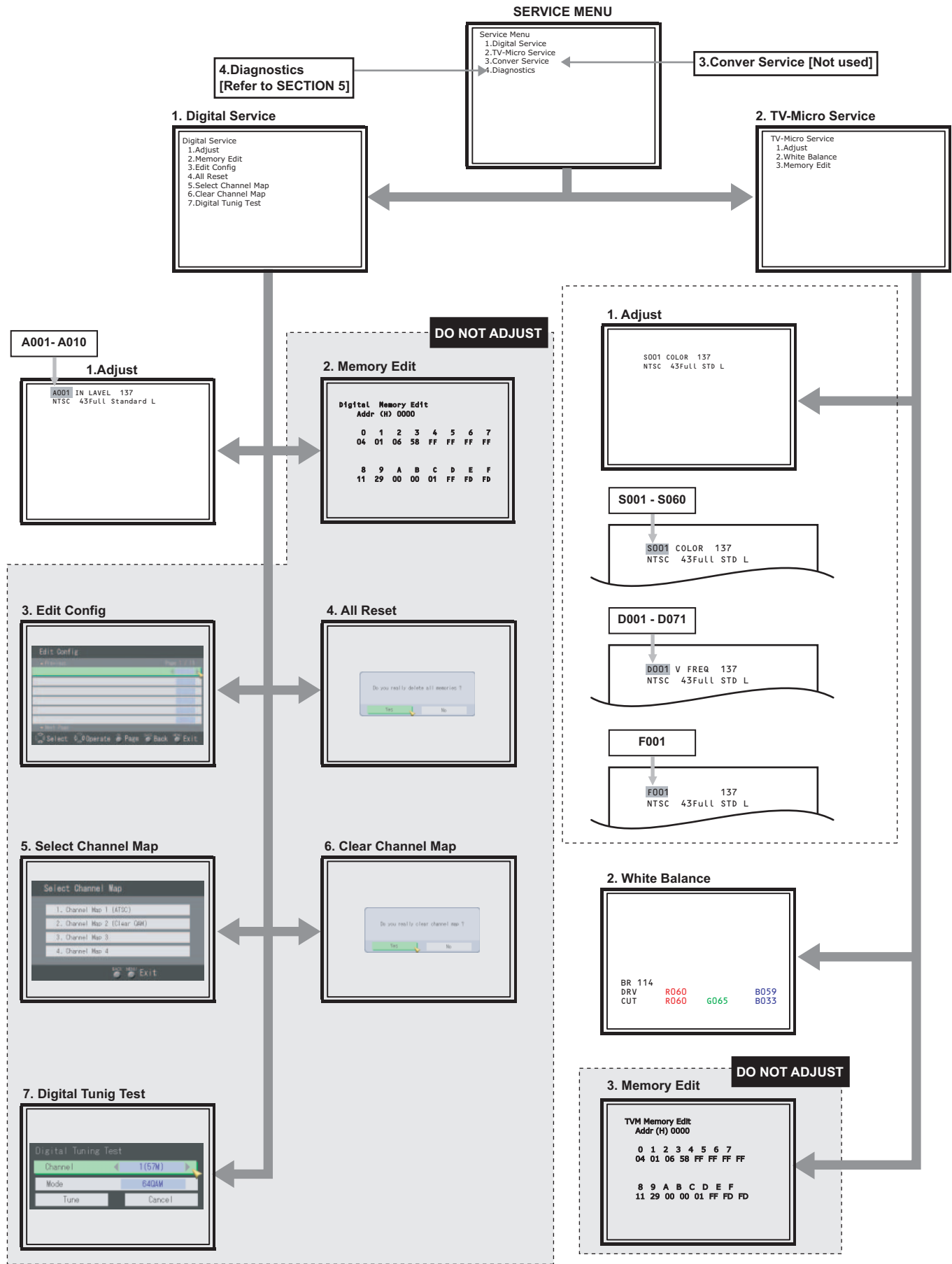
NOTE:

If not to do it, adjustment data is not memorized to the memory IC. And if exit the adjustment mode before memorize the data, the adjustment value which you change is canceled.

4.6.1.4 SERVICE MODE SELECT KEY LOCATION



4.6.2 SERVICE MODE MENU FLOW CHART

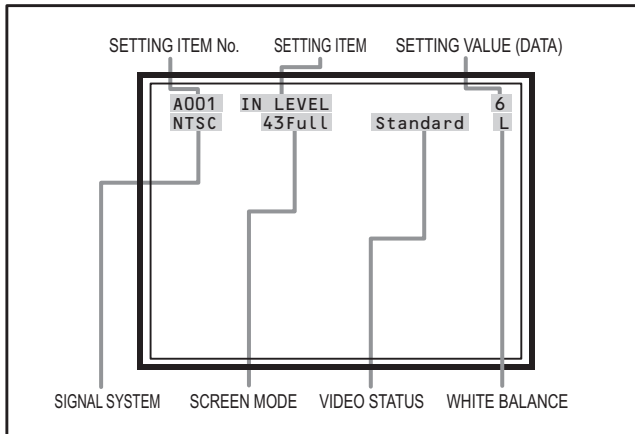


4.6.3 DESCRIPTION OF STATUS DISPLAY

The status display on the upper part of the SERVICE MODE screen is common (to all models).

4.6.3.1 DIGITAL SERVICE MODE

1. Adjust



(1) SIGNAL SYSTEM

The signal displayed on the screen is displayed.

NTSC	: 525i (Composite / S-video input)
525i	: 525i (Component input)
525p	: 525p (Component input)
750p	: 750p (Component input)
1125i	: 1125i (Component input)
D525i	: ATSC 525i
D525p	: ATSC 525p
D750p	: ATSC 750p
D1125i	: ATSC 1125i
H525i	: HDMI 525i
H525pS1	: HDMI 525p size1
H525pS2	: HDMI 525p size2
H750p	: HDMI 750p
H1125i	: HDMI 1125i

(2) SCREEN MODE

State of the ASPECT is displayed.

43Full	: FULL (Input signal 4 : 3)
43Pano	: PANORAMA (Input signal 4 : 3)
43Cinema	: CINEMA (Input signal 4 : 3)
43Regular	: REGULAR (Input signal 4 : 3)
16Full	: FULL (Input signal 16 : 9)
16Pano	: PANORAMA ZOOM (Input signal 16 : 9)
16Cinema	: CINEMA ZOOM (Input signal 16 : 9)
16Slim	: SLIM (Input signal 16 : 9)

(3) VIDEO STATUS

State of the VIDEO STATUS is displayed.

Standard	: STANDARD
Dynamic	: DYNAMIC
Theater	: THEATER
Game	: GAME

(4) WHITE BALANCE

State of the WHITE BALANCE is displayed.

H	: HIGH
L	: LOW

(5) SETTING ITEM NAME

Setting item name are displayed. For the setting item names to be displayed, refer to "INITIAL SETTING VALUE OF SERVICE MODE".

(6) SETTING ITEM NO.

Setting item numbers are displayed. The setting item numbers to be displayed are listed below.

Item No.	Setting item
A001 - A010	Audio system setting

■SELECTION OF SETTING ITEM

- [CH+] / [CH-] key.

Change the setting items up/ down.

A001... ↔ A010

(7) SETTING VALUE (DATA)

The SETTING VALUE is displayed.

■CHANGE OF SETTING VALUE (DATA)

- [VOL+] / [VOL-] key.

Change the setting values up/down.

■MEMORY OF SETTING VALUE (DATA)

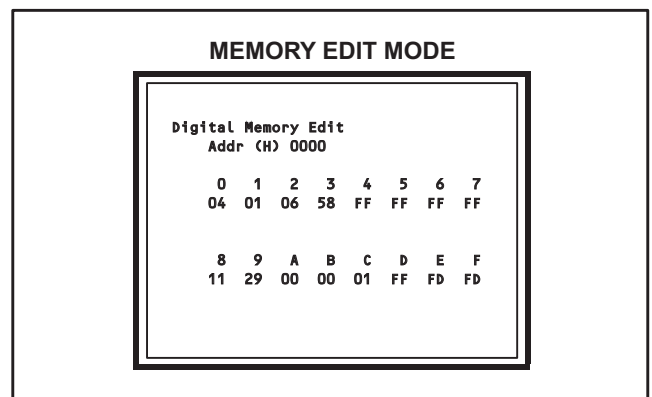
Changed setting value is memorized by pressing [MUTING] key.

2. Memory Edit

Data in the EEPROM is edited on this screen. [Do not adjust]

CAUTION:

This mode is not used in the ADJUSTMENT. Press the [BACK] key to return to the SERVICE MENU SCREEN.

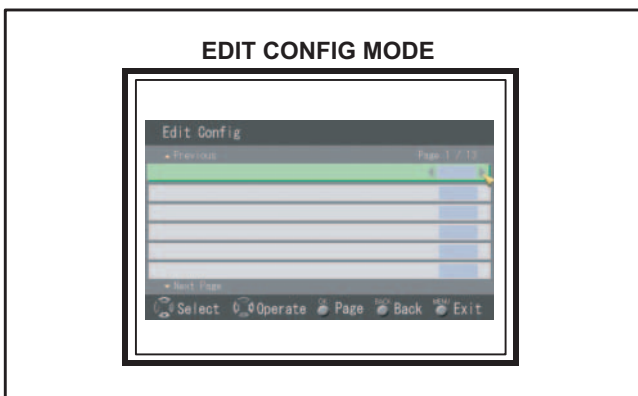


3. Edit Config

Setting value in the digital module is edited and confirmed on this screen. [Do not adjust]

CAUTION:

This mode is not used in the ADJUSTMENT. Press the **[BACK]** key to return to the SERVICE MENU SCREEN.



6. Clear Channel Map

Channel map is cleared on this screen. [Do not adjust]

CAUTION:

This mode is not used in the ADJUSTMENT. Press the **[BACK]** key to return to the SERVICE MENU SCREEN.

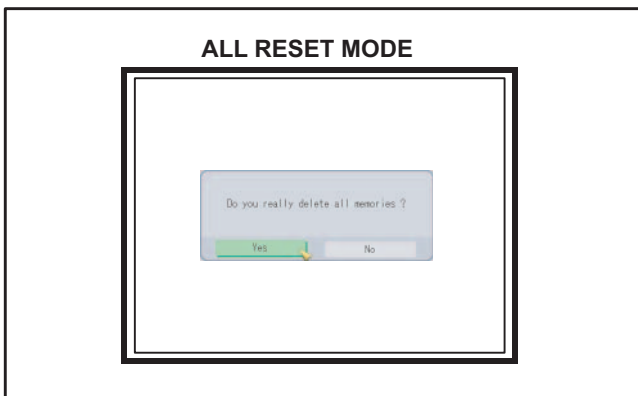


4. All reset

Data in the EEPROM is all reset on this screen. [Do not adjust]

CAUTION:

This mode is not used in the ADJUSTMENT. Press the **[BACK]** key to return to the SERVICE MENU SCREEN.

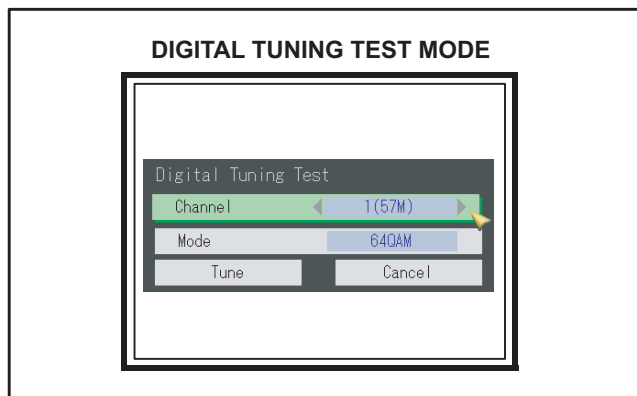


7. Digital Tuning Test

Digital channel tuning is tested on this screen. [Do not adjust]

CAUTION:

This mode is not used in the ADJUSTMENT. Press the **[BACK]** key to return to the SERVICE MENU SCREEN.

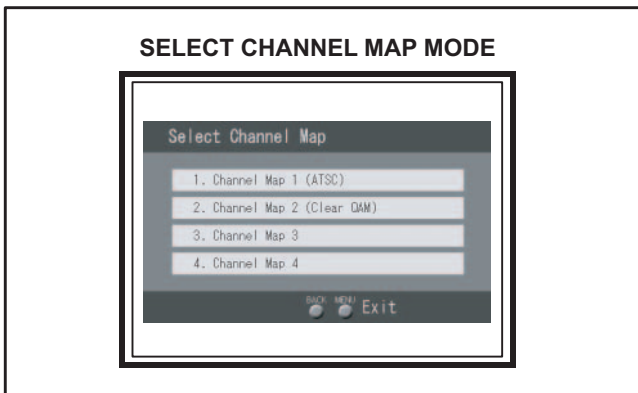


5. Select Channel Map

Channel map is forcibly rewritten on this screen.[Do not adjust]

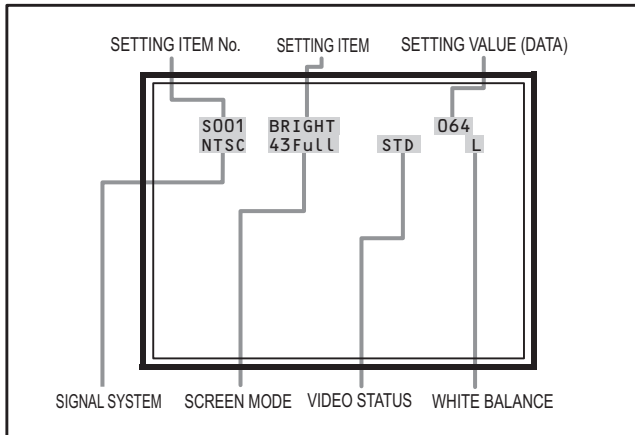
CAUTION:

This mode is not used in the ADJUSTMENT. Press the **[BACK]** key to return to the SERVICE MENU SCREEN.



4.6.3.2 TV-MICRO SERVICE MODE

1. Adjust



(1) SIGNAL SYSTEM

The signal displayed on the screen is displayed.

NTSC	: 525i (Composite / S-video input)
525i	: 525i (Component input)
525p	: 525p (Component input)
750p	: 750p (Component input)
1125i	: 1125i (Component input)
D525i	: ATSC 525i
D525p	: ATSC 525p
D750p	: ATSC 750p
D1125i	: ATSC 1125i
H525i	: HDMI 525i
H525pS1	: HDMI 525p size1
H525pS2	: HDMI 525p size2
H750p	: HDMI 750p
H1125i	: HDMI 1125i

(2) SCREEN MODE

State of the ASPECT is displayed.

43Full	: FULL (Input signal 4 : 3)
43Pano	: PANORAMA (Input signal 4 : 3)
43Cinema	: CINEMA (Input signal 4 : 3)
43Regular	: REGULAR (Input signal 4 : 3)
16Full	: FULL (Input signal 16 : 9)
16Pano	: PANORAMA ZOOM (Input signal 16 : 9)
16Cinema	: CINEMA ZOOM (Input signal 16 : 9)
16Slim	: SLIM (Input signal 16 : 9)

(3) VIDEO STATUS

State of the VIDEO STATUS is displayed.

STD	: STANDARD
DYN	: DYNAMIC
THEA	: THEATER
GAME	: GAME

(4) WHITE BALANCE

State of the WHITE BALANCE is displayed.

H	: HIGH
L	: LOW

(5) SETTING ITEM NAME

Setting item name are displayed. For the setting item names to be displayed, refer to "INITIAL SETTING VALUE OF SERVICE MODE".

(6) SETTING ITEM NO.

Setting item numbers are displayed. The setting item numbers to be displayed are listed below.

Item No.	Setting item
S001 - S060	Video system setting
D001 - D071	Deflection system
F001	Factory system setting

■SELECTION OF SETTING ITEM

- **[CH+]** / **[CH-]** key.
Change the setting items up/ down.

S001... ↔ D001... ↔ F001...↔ S001...

- **[SLEEP TIMER]** key.
Switch to the next items.

S001 → D001 → F001 → S001

(7) SETTING VALUE (DATA)

The SETTING VALUE is displayed.

■CHANGE OF SETTING VALUE (DATA)

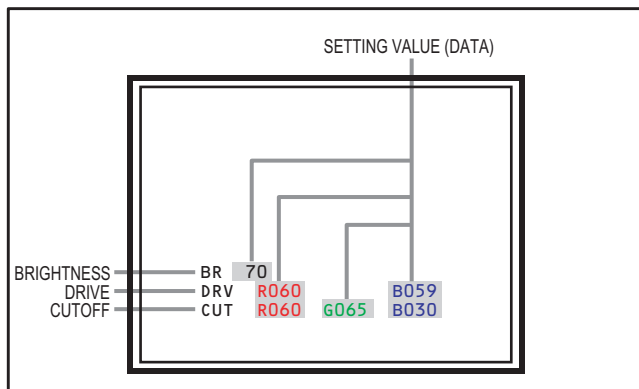
- **[VOL+]** / **[VOL-]** key.
Change the setting values up/down.

■MEMORY OF SETTING VALUE (DATA)

Changed setting value is memorized by pressing **[MUTING]** key.

2. White Balance

White balance data is adjusted on this screen.



BRIGHTNESS

[VOL+] key : BRIGHT is up
[VOL-] key : BRIGHT is down

DRIVE

[2] key : DRIVE R is up
[5] key : DRIVE R is down
[3] key : DRIVE B is up
[6] key : DRIVE B is down

CUTOFF

[1] key : HORIZONTAL LINE on
[4] key : HORIZONTAL LINE off
[7] key : CUTOFF G is up
[TUNE] key : CUTOFF G is down
[8] key : CUTOFF R is up
[0] key : CUTOFF R is down
[9] key : CUTOFF B is up
[RETURN+] key : CUTOFF B is down

■MEMORY OF SETTING VALUE (DATA)

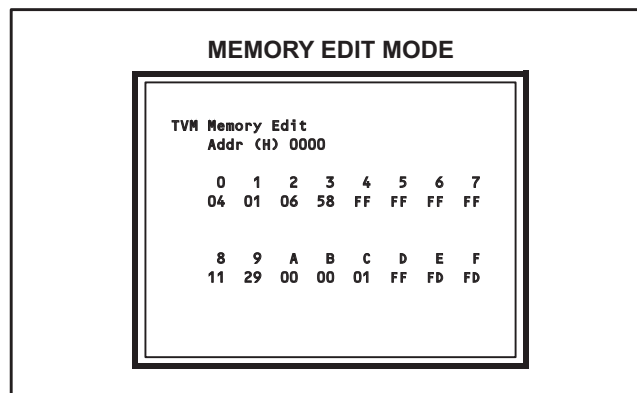
Changed setting value is memorized by pressing [MUTING] key.

3. Memory Edit

Data in the EEPROM is edited on this screen. [Do not adjust]

CAUTION:

This mode is not used in the ADJUSTMENT. Press the [BACK] key to return to the SERVICE MENU SCREEN.



4.7 INITIAL SETTING VALUE OF SERVICE MODE

- (1) Adjustment of the SERVICE MODE is made on the basis of the initial setting values ; however, the new setting values which set the screen in its optimum condition may differ from the initial setting.
- (2) Do not change the initial setting values of the setting items NOT LISTED IN ADJUSTMENT PROCEDURE.
- (3) --- : This mark described in each table shows "Cannot adjust it."

4.7.1 [1. Digital Service]

4.7.1.1 SOUND SETTING

No.	Setting item	Variable range	Initial setting value
A001	IN LEVEL	0 - 15	6
A002	LOW SEP	0 - 63	30
A003	HIGH SEP	0 - 63	30
A004	BASS OFS	-128 - 127	0
A005	TREB OFS	-128 - 127	0

No.	Setting item	Variable range	Initial setting value
A006	AHS MVE	-128 - 127	-3
A007	AHS MSC	-128 - 127	-1
A008	AGC FLAT	0 - 3	1
A009	BBE BASS	-128 - 127	0
A010	BBE TREB	-128 - 127	0

4.7.2 [2. TV-Micro Service]

4.7.2.1 VIDEO SETTING

No.	Setting item	Variable range	Initial setting value		
			RF		EXTERNAL (S/CV)
			STANDARD	THEATER	STANDARD
S001	BRIGHT	000 - 063	031	---	---
S002	PICTURE	000 - 063	025	---	---
S003	COLOR	000 - 063	044	---	---
S004	TINT	000 - 063	031	---	---
S005	DETAIL	000 - 063	031	---	031
S006	BRIGHT+-	-128 - +127	---	000	000
S007	PICT+-	-128 - +127	---	000	000
S008	COLOR+-	-128 - +127	---	000	000
S009	TINT+-	-128 - +127	---	000	000
S010	DETAIL+-	-128 - +127	---	000	---

No.	Setting item	Variable range	Initial setting value					
			EXTERNAL (COMPONENT)			ATSC / HDMI		
			STANDARD					
			525i	525p	1125i/750p	525i	525p	1125i/750p
S003	COLOR	000 - 063	040	---	---	031	---	---
S004	TINT	000 - 063	031	---	---	031	---	---
S005	DETAIL	000 - 063	031	031	031	031	031	031
S006	BRIGHT+-	-128 - +127	000	---	---	000	---	---
S007	PICT+-	-128 - +127	000	---	---	000	---	---
S008	COLOR+-	-128 - +127	---	000	000	---	000	000
S009	TINT+-	-128 - +127	---	000	000	---	000	000

No.	Setting item	Variable range	Initial setting value							
			RF/EXTERNAL(S/CV)				EXTERNAL(COMPONENT)/ATSC/HDMI			
			STANDARD		THEATER		STANDARD		THEATER	
			LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
S011	R CUTOFF	000 - 063	036	---	---	---	---	---	---	---
S012	G CUTOFF	000 - 063	036	---	---	---	---	---	---	---
S013	B CUTOFF	000 - 063	036	---	---	---	---	---	---	---
S014	R DRIVE	000 - 063	031	---	---	---	---	---	---	---
S015	B DRIVE	000 - 063	031	---	---	---	---	---	---	---
S016	R CUT+-	-128 - +127	---	000	000	000	000	---	---	---
S017	G CUT+-	-128 - +127	---	000	000	000	000	---	---	---
S018	B CUT+-	-128 - +127	---	000	000	000	000	---	---	---
S019	R DRV+-	-128 - +127	---	+002	+006	+003	000	---	---	---
S020	B DRV+-	-128 - +127	---	+003	-012	-004	000	---	---	---

No.	Setting item	Variable range	Initial setting value				
			RF	EXTERNAL(S/CV)	EXTERNAL(COMPONENT) / ATSC / HDMI		
					525i	525p	1125i/750p
S021	COL AXIS	000 - 003	002				002
S022	CB OFS	000 - 063	021				032
S023	CR OFS	000 - 063	032				032
S024	SYSTEM	000 - 003	003	003	003	003	003
S025	SHP F0	000 - 001	001	001	001	001	001
S026	SHP F1	000 - 003	001	001	001	001	001

No.	Setting item	Variable range	Initial setting value	
			STANDARD	THEATER
S027	LTI LEV	000 - 003	002	002
S028	LTI MODE	000 - 003	002	002
S029	DPIC LEV	000 - 003	003	003
S030	DC TRAN	000 - 003	001	001
S031	CTI LEV	000 - 003	001	001
S032	CTI MODE	000 - 003	000	000
S033	DCOL	000 - 003	000	000
S034	ABL MODE	000 - 003	002	002
S035	GAMMA	000 - 003	002	002
S036	GAMMA_L	000 - 001	001	001
S037	SUB BRI	000 - 063	048	048
S038	SUB CONT	000 - 015	008	008
S039	WB SW	000 - 001	000	000

No.	Setting item	Variable range	Initial setting value
S040	SHP CD	000 - 003	002
S041	CD OFF	000 - 001	000
S042	VM LEV	000 - 003	003
S043	VM DLY	000 - 003	002
S044	VM COR	000 - 003	002
S045	VM F0	000 - 003	003
S046	VM LMT	000 - 003	003
S047	Y OFFSET	000 - 015	007
S048	PRE OVER	000 - 003	000
S049	AGING W	000 - 001	000
S050	AGING B	000 - 001	000
S051	BLK BTM	000 - 003	000
S052	PLMT LEV	000 - 003	000
S053	G DRIVE	000 - 063	031
S054	LRGB2 LV	000 - 015	008
S055	P ABL	000 - 015	001
S056	ABL TH	000 - 015	015
S057	S ABL	000 - 003	002
S058	AKBOFF	000 - 001	001
S059	BLK OFF	000 - 001	000
S060	VMOFF DE	-128 - +127	000

4.7.2.2 DEFLECTION SETTING

No.	Setting item	Variable range	Initial setting value	
			Full Cinema Regular	Panorama
D001	V.SIZE	000 - 063	046	---
D002	V.SIZE+-	-128 - +127	---	000
D003	EW	000 - 063	028	---
D004	EW+-	-128 - +127	---	000
D005	H.SIZE	000 - 063	022	---
D006	H.SIZE+-	-128 - +127	---	000
D007	V.SCORE	000 - 015	003	---
D008	V.SCOR+-	-128 - +127	---	000
D009	V.LIN	000 - 015	009	---
D010	V.LIN+-	-128 - +127	---	000
D011	V.CENT	000 - 063	029	---
D012	EW.TRAP	000 - 063	015	---
D013	EW.TRA+-	-128 - +127	---	000
D014	BOT.CORN	000 - 063	022	---
D015	BOT.CO+-	-128 - +127	---	000
D016	TOP.CORN	000 - 063	030	---
D017	TOP.CO+-	-128 - +127	---	000
D018	V.EHT	000 - 015	007	---
D019	H.EHT	000 - 015	000	---

No.	Setting item	Variable range	Initial setting value	
			Full Cinema Regular	Panorama
D020	H CENT	000 - 063	036	---
D021	H CENT+-	-128 - +127	---	000
D022	BOW	000 - 063	032	---
D023	BOW+-	-128 - +127	---	000
D024	PARALLEL	000 - 063	029	---
D025	PARALL+-	-128 - +127	---	000
D026	EW DC	000 - 001	000	---
D027	PIN COMP	000 - 007	000	---
D028	BOT UCP	000 - 003	000	---
D029	B UCP+-	-128 - +127	---	000
D030	TOP UCP	000 - 003	000	---
D031	T UCP+-	-128 - +127	---	000
D032	BOT UCG	000 - 003	000	---
D033	B UCG+-	-128 - +127	---	000
D034	TOP UCG	000 - 003	000	---
D035	T UCG+-	-128 - +127	---	000
D036	UC POL	000 - 001	000	---
D037	UC POL+-	-128 - +127	---	000
D038	SYNC PH	000 - 001	000	---
D039	AFC MODE	000 - 003	003	---
D040	AFC EHT	000 - 007	000	---
D041	HBLK SW	000 - 001	001	---
D042	L BLK	000 - 063	063	---
D043	R BLK	000 - 063	000	---
D044	CLP PH	000 - 003	000	---
D045	CLP SHFT	000 - 001	001	---
D046	CLP GATE	000 - 001	000	---
D047	V ASP	000 - 063	003	---
D048	ASP SW	000 - 001	000	---
D049	ZOOM SW	000 - 001	000	---
D050	JMP SW	000 - 001	000	---
D051	V SCROLL	000 - 063	035	---
D052	BOT VLIN	000 - 015	000	---
D053	B VLIN+-	-128 - +127	---	000
D054	TOP VLIN	000 - 015	002	---
D055	T VLIN+-	-128 - +127	---	000
D056	VSW0 DCH	000 - 003	000	---
D057	VSW0 DCL	000 - 015	000	---
D058	VSW1 DC	000 - 015	000	---
D059	VSW0 AMP	000 - 031	000	---
D060	VSW1 AMP	000 - 031	000	---
D061	MPPR DC	000 - 015	000	---
D062	MPPR AMP	000 - 015	000	---
D063	HCPR DC	000 - 063	000	---

No.	Setting item	Variable range	Initial setting value	
			Full Cinema Regular	Panorama
D064	HCPR PH	000 - 063	000	---
D065	HCPR AMP	000 - 063	000	---
D066	VDRV SW	000 - 001	000	---
D067	VLK SW	000 - 001	000	---
D068	BOT BLK	000 - 015	000	---
D069	TOP BLK	000 - 015	005	---
D070	RST SW	000 - 001	000	---
D071	AKBTIM	000 - 031	000	---

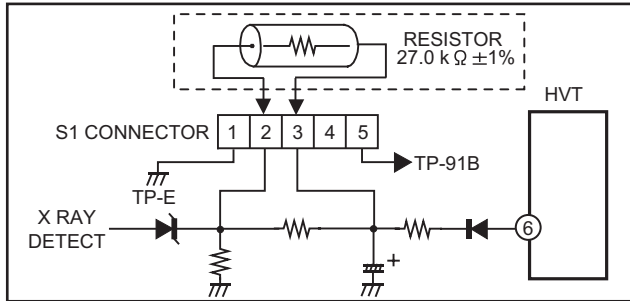
4.7.2.3 FACTORY SETTING

No.	Setting item	Variable range	Initial setting value
F001	DTVM RST	000 - 001	001

4.8 ADJUSTMENT PROCEDURE

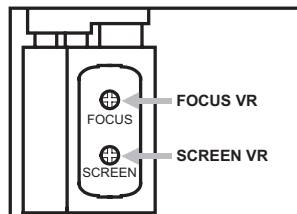
4.8.1 CHECK ITEM

Item	Measuring instrument	Test point	Adjustment part	Description
B1 VOLTAGE	Signal generator DC voltmeter	S1 connector 1-pin: TP-E 5-pin: TP-91B [POWER & DEF PWB]		<ol style="list-style-type: none"> (1) Receive the black and white signal (color off). (2) Connect the DC voltmeter to the 1-pin and 5-pin of S1 connector. (3) Confirm that the voltage is DC140V±2.5V.
HV POTENTIAL	HV voltmeter	CRT anode Chassis GND	SCREEN VR [In HVT]	<ol style="list-style-type: none"> (1) Receive any broadcast. (2) Turn the SCREEN VR to make cut-off screen (black screen). (3) Connect the earth clip of HV voltmeter to chassis GND. (4) Connect the probe of HV voltmeter to CRT anode. (5) Confirm that the voltage is 30.0kV±1.3kV. <p>NOTE: Remove the probe before removing the earth clip.</p>
X-RAY PROTECTOR OPERATION-1	DC power supply	S1 connector 1-pin : TP-E 3-pin : X-RAY1 [POWER & DEF PWB]		<ol style="list-style-type: none"> (1) Receive any broadcast. (2) Apply DC 26V between the 1-pin and 3-pin of S1 connector. (3) Increase the DC voltage slowly. (4) Confirm that the screen picture disappears until the DC voltage is 52.8V. (5) Disconnect the power plug. (6) Again connect the power plug. (7) Turn the power switch to on. (8) Make sure that the normal picture is displayed on the screen.
X-RAY PROTECTOR OPERATION-2	Resistor [27.0kΩ±1%]	S1 connector 2-pin : X-RAY2 3-pin : X-RAY1 [POWER & DEF PWB]		<ul style="list-style-type: none"> • After repairing the high voltage hold down circuit. This circuit shall be checked to operate correctly. <ol style="list-style-type: none"> (1) Receive any broadcast. (2) Refer to the figure, connect the resistor 27.0kΩ ±1% between the 2-pin and 3-pin of S1 connector. (3) Make sure that the screen picture disappears. (4) Disconnect the power plug. (5) Remove the resistor. (6) Again connect the power plug. (7) Turn the power switch to on. (8) Make sure that the normal picture is displayed on the screen.



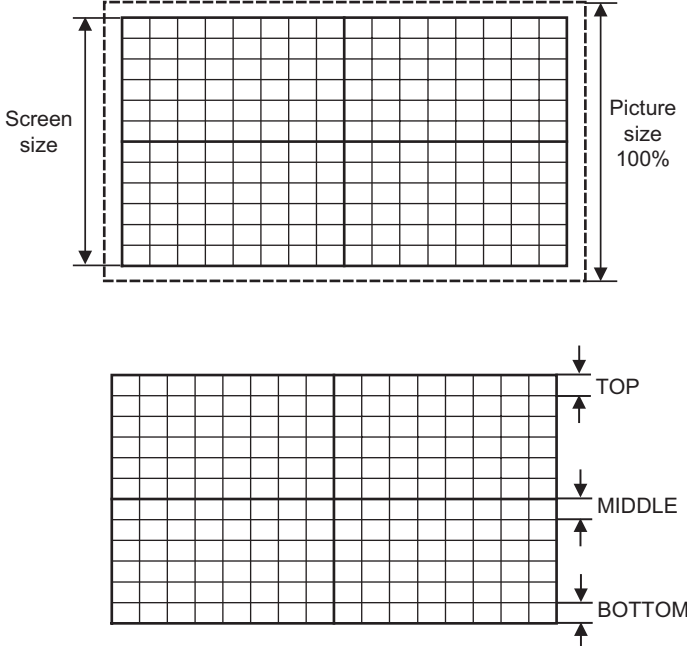
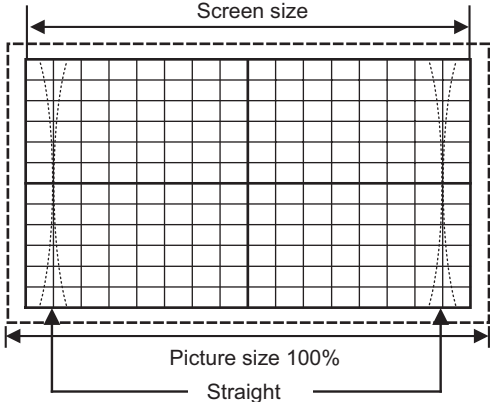
4.8.2 FOCUS

Item	Measuring instrument	Test point	Adjustment part	Description
FOCUS	Signal generator Remote control unit		FOCUS VR [In HVT]	<ol style="list-style-type: none"> (1) Receive the crosshatch signal. (2) Adjust the FOCUS VR to make the horizontal and vertical line as fine and sharp as possible at center. (3) Make sure that when the screen is darkened, the lines remain in good focus.



4.8.3 DEFLECTION CIRCUIT

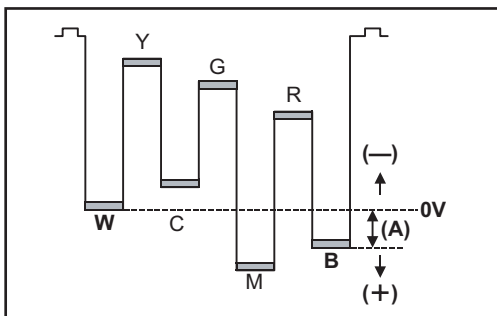
- When the FULL mode has been established, the setting of other modes will be done automatically. However, if the picture quality has not been optimized, adjust each mode again, respectively.

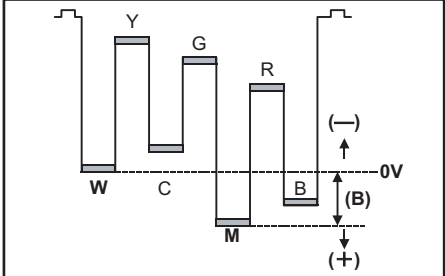
Item	Measuring instrument	Test point	Adjustment part	Description
V. POSITION / V. SIZE / V. LINEARITY	Signal generator Remote control unit		[1.Adjust] D001: V. SIZE D007: V. SCORE D009: V. LIN V. CENTER SW (S2401) [POWER & DEF PWB]	(1) Receive the crosshatch signal. (2) Set the ASPECT to "FULL". (3) Select the 2.TV-Micro Service from the SERVICE MODE. (4) Select the 1. Adjust . (5) Adjust V. CENTER SW to agree the vertical center with the display center. (6) Select < D001 > (V. SIZE). (7) Adjust < D001 > so that the vertical screen size becomes 92% of the vertical picture size. (8) Press the [MUTING] key to memorize the set value. NOTE: <ul style="list-style-type: none"> Bottom is to be located within the 85%-95% range. When vertical linearity is not even, adjust < D009 > (V. LIN) and < D007 > (V. SCORE) to vertical linearity.
				
H. POSITION / H. SIZE / SIDE PIN / TRAPEZIUM	Signal generator Remote control unit		[1.Adjust] D003: EW D005: H. SIZE D012: EW. TRAP D014: BOT. CORN D016: TOP. CORN D020: H CENT	<ul style="list-style-type: none"> FORCUS adjustment should be finished. V. SIZE / V. POSITION adjustment should be finished. (1) Receive the crosshatch signal. (2) Set the ASPECT to "FULL". (3) Select the 2.TV-Micro Service from the SERVICE MODE. (4) Select the 1. Adjust . (5) Select < D020 > (H CENT). (6) Adjust the < D020 > so that the horizontal center of the crosshatch agrees with the horizontal center of the screen. (7) Select < D005 > (H. SIZE). (8) Adjust the < D005 > to become the screen size to 91% of the horizontal picture size. (9) Select < D003 > (EW). (10) Adjust the < D003 > so that the vertical lines become straight. (11) If the corner pincushions are too bad, adjust the < D016 > (TOP. CORN), < D014 > (BOT. CORN) and < D012 > (EW. TRAP) to get exact corner pincushion of the crosshatch pattern. (12) Press the [MUTING] key to memorize the set value. NOTE: <ul style="list-style-type: none"> Confirm the H. position and if it is different, readjust the H. position again. Repeat the adjustment of the H. size and side pincushion.
				

4.8.4 VIDEO CIRCUIT [2.TV-Micro Service]

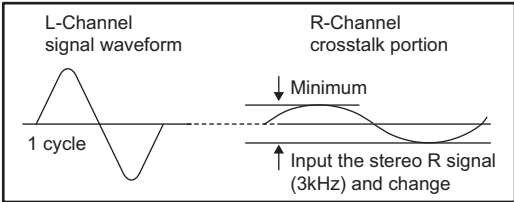
Item	Measuring instrument	Test point	Adjustment part	Description
WHITE BALANCE (LOW LIGHT)	Signal generator		[1.Adjust] S001: BRIGHT S011: R CUTOFF S012: G CUTOFF S013: B CUTOFF S022: CB OFS S023: CR OFS	(1) Receive the black and white signal (color off). (2) Set the VIDEO STATUS to "STANDARD". (3) Set the COLOR TEMPERATURE to "LOW". (4) Select the 2.TV-Micro Service from the SERVICE MODE. (5) Select the 1. Adjust . (6) Set the initial setting value of < S001 > (BRIGHT), < S011 > (R CUTOFF), < S012 > (G CUTOFF), < S013 > (B CUTOFF), < S022 > (CB OFS) and < S023 > (CR OFS). (7) Return to the 2.TV-Micro Service MENU . (8) Select the 2. White Balance . (9) Turn the SCREEN VR clockwise slowly from full counterclockwise until 0% black level point is just visible. (10) Adjust BRIGHT to make a little bright for +3% black level by [VOL+] / [VOL-] key. (11) Adjust R CUTOFF, G CUTOFF or B CUTOFF in positive direction except the first appeared color to make white for +3% black level by using the [7] to [0] , [TUNE] and [RETURN+] keys. If each color is raised by one step, it is adjusted that the raised color goes out. (12) Press the [MUTING] key to memorize the set value. NOTE : When it is insufficient in the adjustment, adjust < S022 > (CB OFS) and < S023 > (CR OFS) closely to make white for +3% black level.
	Remote control unit		[2.White Balance] SCREEN VR [in HVT]	
WHITE BALANCE (HIGH LIGHT)	Signal generator		[1.Adjust] S014: R DRIVE S015: B DRIVE	• WHITE BALANCE(LOW LIGHT) adjustment should be finished. (1) Receive the black and white signal (color off). (2) Set the VIDEO STATUS to "STANDARD". (3) Set the COLOR TEMPERATURE to "LOW". (4) Select the 2.TV-Micro Service from the SERVICE MODE. (5) Select the 1. Adjust . (6) Set the initial setting value of < S014 > (R DRIVE) and < S015 > (B DRIVE). (7) Return to the 2.TV-Micro Service MENU . (8) Select the 2. White Balance . (9) Adjust the screen until it becomes white by using the [2] , [3] , [5] and [6] keys. (10) Press the [MUTING] key to memorize the set value.
	Remote control unit		[2.White Balance]	
<div><div>REMOTE CONTROL UNIT</div><div><div>123</div><div>456</div><div>G CUTOFF▲ R CUTOFF▲ B CUTOFF▲</div><div>789</div><div>G CUTOFF▼ R CUTOFF▼ B CUTOFF▼</div><div>TUNE0RETURN+</div></div></div>				
<div><div>REMOTE CONTROL UNIT</div><div><div></div><div>R DRIVE ▲ B DRIVE ▲</div><div>123</div><div></div><div>R DRIVE ▼ B DRIVE ▼</div><div>456</div><div></div><div>789</div><div>TUNE0RETURN+</div></div></div>				

Item	Measuring instrument	Test point	Adjustment part	Description
SUB BRIGHT	Remote control unit		[1.Adjust] S001: BRIGHT	<ul style="list-style-type: none"> WHITE BALANCE adjustment should be finished. <ol style="list-style-type: none"> Receive any broadcast. Set the VIDEO STATUS to "STANDARD". Set the COLOR TEMPERATURE to "LOW". Select the 2.TV-Micro Service from the SERVICE MODE. Select the 1. Adjust. Select < S001 > (BRIGHT). Set the initial setting value of < S001 >. If the brightness is not the best with the initial setting value, make fine adjustment of < S001 > until you get the optimum brightness. Press the [MUTING] key to memorize the set value.
SUB CONTRAST	Remote control unit		[1.Adjust] S002: PICTURE	<ul style="list-style-type: none"> SUB BRIGHT adjustment should be finished. <ol style="list-style-type: none"> Receive any broadcast. Set the VIDEO STATUS to "STANDARD". Set the COLOR TEMPERATURE to "LOW". Select the 2.TV-Micro Service from the SERVICE MODE. Select the 1. Adjust. Select < S002 > (PICTURE). Set the initial setting value of < S002 >. If the contrast is not the best with the initial setting value, make fine adjustment of the < S002 > until you get the optimum contrast. Press the [MUTING] key to memorize the set value.
SUB COLOR	Remote control unit		[1.Adjust] S003 : COLOR	[Method of adjustment without measuring instrument] <ul style="list-style-type: none"> SUB CONTRAST adjustment should be finished. <ol style="list-style-type: none"> Receive any broadcast. Set the VIDEO STATUS to "STANDARD". Set the COLOR TEMPERATURE to "LOW". Select the 2.TV-Micro Service from the SERVICE MODE. Select the 1. Adjust. Select < S003 >(COLOR). Set the initial setting value of the < S003 >. If the color is not the best with the initial setting values, make fine adjustment until you get the best color. Press the [MUTING] key to memorize the set value.
	Signal generator Oscilloscope Remote control unit	TP-B TP-E [CRT SOCKET PWB]	[1.Adjust] S003 : COLOR	[Method of adjustment using measuring instrument] <ul style="list-style-type: none"> SUB CONTRAST adjustment should be finished. <ol style="list-style-type: none"> Input the full color bar signal includes the 75% white. Set the VIDEO STATUS to "STANDARD". Set the COLOR TEMPERATURE to "LOW". Select the 2.TV-Micro Service from the SERVICE MODE. Select the 1. Adjust. Select < S003 >(COLOR). Set the initial setting value of the < S003 >. Connect the oscilloscope between TP-B and TP-E. Adjust < S003 > and bring the voltage of (A) in the illustration to +11V. (voltage difference between white and blue). Press the [MUTING] key to memorize the set value.



Item	Measuring instrument	Test point	Adjustment part	Description
SUB TINT	Remote control unit		[1.Adjust] S004 : TINT	[Method of adjustment without measuring instrument] <ul style="list-style-type: none"> SUB CONTRAST adjustment should be finished. (1) Receive any broadcast. (2) Set the VIDEO STATUS to "STANDARD". (3) Set the COLOR TEMPERATURE to "LOW". (4) Select the 2.TV-Micro Service from the SERVICE MODE. (5) Select the 1. Adjust. (6) Select < S004 >(TINT). (7) Set the initial setting value of the < S004 >. (8) If the tint is not the best with the initial setting values, make fine adjustment until you get the best tint. (9) Press the [MUTING] key to memorize the set value. [Method of adjustment using measuring instrument] <ul style="list-style-type: none"> SUB CONTRAST adjustment should be finished. (1) Input the full color bar signal includes the 75% white. (2) Set the VIDEO STATUS to "STANDARD". (3) Set the COLOR TEMPERATURE to "LOW". (4) Select the 2.TV-Micro Service from the SERVICE MODE. (5) Select the 1. Adjust. (6) Select < S004 >(TINT). (7) Set the initial setting value of the < S004 >. (8) Connect the oscilloscope between TP-B and TP-E. (9) Adjust < S004 > and bring the voltage of (B) in the illustration to +5V. (voltage difference between white and magenta). (10) Press the [MUTING] key to memorize the set value.
	Signal generator Oscilloscope Remote control unit	TP-B TP-E [CRT SOCKET PWB]	[1.Adjust] S004 : TINT	
				

4.8.5 MTS CIRCUIT [1.Digital Service]

Item	Measuring instrument	Test point	Adjustment part	Description
MTS INPUT LEVEL	Remote control unit		[1.Adjust] A001: IN LEVEL	(1) Receive any broadcast. (2) Select the 1.Digital Service from the SERVICE MODE. (3) Select the 1.Adjust . (4) Select the < A001 > (IN LEVEL). (5) Set the initial setting value of < A001 >. (6) Press the [MUTING] key to memorize the set value.
MTS SEPARATION	TV audio multiplex signal generator Oscilloscope Remote control unit	R OUT L OUT [AUDIO OUT]	[1.Adjust] A002: LOW SEP A003: HIGH SEP	(1) Input the stereo L signal (300 Hz) from the TV audio multiplex signal generator to the antenna terminal. (2) Connect an oscilloscope to R OUT pin of the AUDIO OUT, and display one cycle portion of the 300 Hz signal. (3) Select the 1.Digital Service from the SERVICE MODE. (4) Select the 1.Adjust . (5) Select the < A002 > (LOW SEP). (6) Set the initial setting value of < A002 >. (7) Adjust the < A002 > so that the stroke element of the 300Hz signal will become minimum. (8) Press the [MUTING] key to memorize the set value. (9) Input the stereo R signal (3kHz) and change the connection of the oscilloscope to L OUT pin of the AUDIO OUT. (10) Similarly adjust < A003 > (HIGH SEP). (11) Press the [MUTING] key to memorize the set value.
				

SECTION 5 TROUBLESHOOTING

5.1 SELF CHECK FEATURE

5.1.1 OUTLINE

This unit comes with the "Self check" feature, which checks the operational state of the circuit and displays/saves it during failure. Diagnosis is performed when power is turned on, and information input to the main microcomputer is monitored at all time. Failure detection is based on input state of I²C bus and the various control lines connected to the main microcomputer.

5.1.2 HOW TO ENTER THE SELF CHECK MODE

- (1) Set to "0 minutes" using the [SLEEP TIMER] key.
- (2) While "0 minutes" is displayed, press the [VIDEO STATUS] key and [DISPLAY] key simultaneously, then enter the SERVICE MODE.
- (3) Press the [4] key (4.Diagnostics) in the SERVICE MENU SCREEN.
- (4) Press the [3] key (3.Self check) in the DIAGNOSTICS MODE screen.
- (5) The SELF CHECK MODE screen is displayed. (Fig.3)
- (6) Press the [VOL+] / [VOL-] key to switch between the first page and the second page.

NOTE:

When a number key other than the [4] key is pressed in the SERVICE MENU SCREEN, the other relevant screen may be displayed.

This is not used in the SELF CHECK MODE. Press the [BACK] key to return to the SERVICE MENU SCREEN.

5.1.3 HOW TO EXIT THE SELF CHECK MODE

TO SAVE FAILURE HISTORY:

Turn off the power by unplugging the AC power cord plug when in the SELF CHECK MODE.

TO CLEAR (RESET) FAILURE HISTORY:

Turn off the power by pressing the key on the remote control unit when in the SELF CHECK MODE.

5.1.4 FAILURE HISTORY

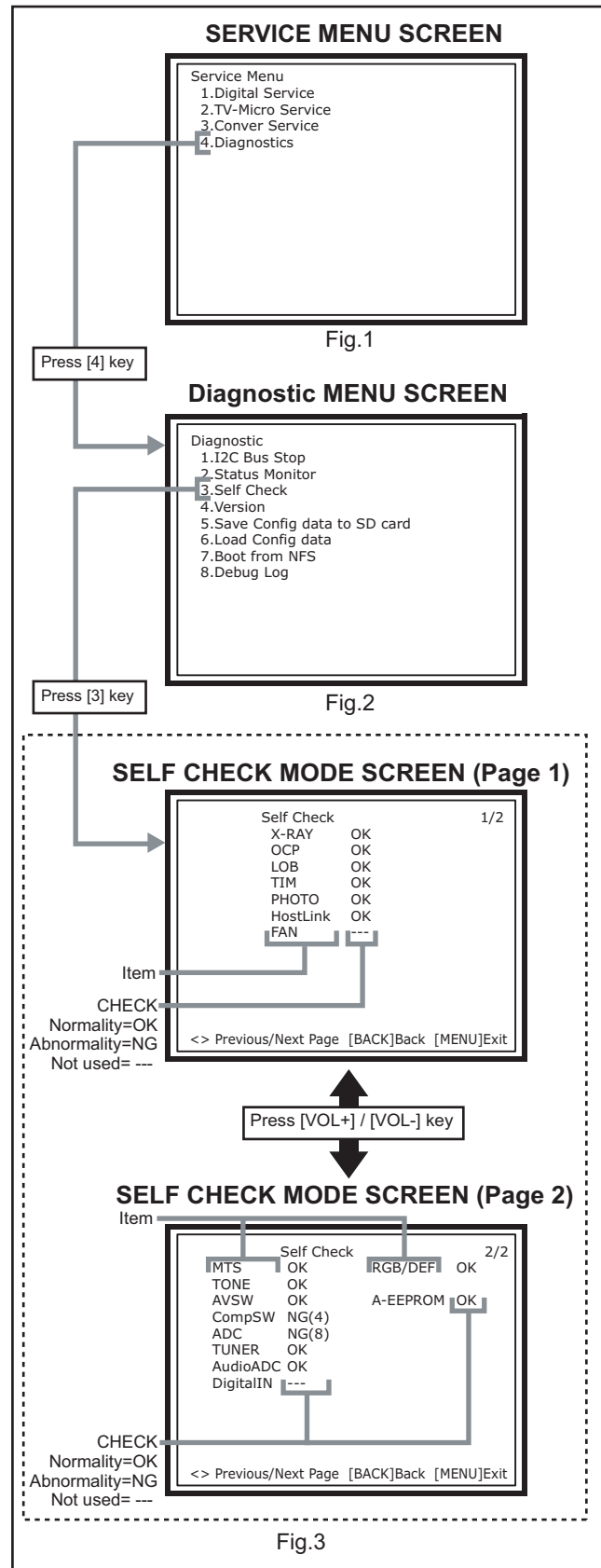
Failure history can be counted up to 9 times for each item. When the number exceeds 9, display will remain as 9. Failure history will be stored in the memory unless it has been deleted.

5.1.5 POINTS TO NOTE WHEN USING THE SELF CHECK FEATURE

In addition to circuit failures (abnormal operation), the following cases may also be diagnosed as "Abnormal" and displayed and counted as "NG".

- (1) Temporary defective transmissions across circuits due to pulse interruptions
- (2) Misalignment in the on/off timing of power for I²C bus (VCC) when turning on/off the main power.

Diagnosis may be impeded if a large number of items are displayed as "NG". As such, start Self check check only after 3 seconds in the case of receivers and 5 seconds in the case of panels upon turning on the power. If recurrences are expected, ensure to clear (reset) the failure history and record the new diagnostic results.



5.1.6 DETAILS

Self check is performed for the following items:

5.1.6.1 PAGE 1 OF SCREEN

Detection item	Display	Detection content	Diagnosis signal (line)	Detection timing
X-ray protection	X-RAY	Operation of X-ray protection circuit. Q710 [MAIN PWB]	X_RAY	At about 3 seconds after the power is turned on, the self-check function starts. If NG is detected during 200ms, the POWER LED is blinked.
B1 over-current protection	OCP	B1 over-current is detected. Q2971 [POWER & DEF PWB]	OCP	At about 3 seconds after the power is turned on, the self-check function starts. If NG is detected during 200ms, the power is turned off automatically.
Low bias line short protection	LOB	Operation of low B short protection circuit. 5V: Q961 9V: Q962 [MAIN PWB]	LOB_PRO	At about 3 seconds after the power is turned on, the self-check function starts. If NG is detected during 200ms, the power is turned off automatically.
Timer (clock)	TIM	The power frequency is changed as follows: 50Hz → 60Hz / 60Hz→50Hz. IC701 [MAIN PWB]	AC_IN	Detection starts 3 seconds after the power is turned on. Periodically check the power frequency by counting the AC pulse and monitor whether or not the frequency is changed.
Photo detect	PHOTO	Operation of the photo sensor.	DIGI_PHOT	At about 3 seconds after the power is turned on, the self-check function starts. If NG is detected during 1 second, irregularly is counted.
DTVM and TVM communication	Hostlink	Communication error between the digital TV microcomputer and the TV microcomputer is detected. IC701 [MAIN PWB]	SDA	Check communication errors by counting the number of reset exception handling.
Fan lock	FAN	Not used.	---	---

5.1.6.2 PAGE 2 OF SCREEN

Detection item	Display	Detection content	Diagnosis signal (line)	Detection timing
US audio multiplexing decoder	MTS	Confirmation of reply of ACK signal which uses I2C communication.	SDA	If it checks whenever I2C communication is performed and no reply of ACK signal an error will be counted.
Tone/volume control	TONE	Same as above.	SDA	Same as above.
AV select switch	AVSW	Same as above.	SDA	Same as above.
Component signal select switch	CompSW	Same as above.	SDA	Same as above.
A-D converter for component signal	ADC	Same as above.	SDA	Same as above.
Tuner	TUNER	Same as above.	SDA	Same as above.
A-D converter for audio	Audio ADC	Same as above.	SDA	Same as above.
Digital input	DigitalIN	Not used.	---	---
RGB/Def process	RGB/DEF	Confirmation of reply of ACK signal which uses I2C communication. IC301 [MAIN PWB]	SDA	If it checks whenever I2C communication is performed and no reply of ACK signal an error will be counted.
Memory	A-EEPROM	Confirmation of reply of ACK signal which uses I2C communication. IC702 [MAIN PWB]	SDA	Same as above.

5.1.7 DISPLAY METHOD WHEN RASTER IS NOT AVAILABLE

The self check results are shown on the following POWER LED display. When the raster is not displayed, each failure is shown by turning LED on and off at the specified intervals.

- For B1 over-current protection and Low B short protection, the power of the TV is turned off when NG is detected. Immediately after the power is turned off, the POWER LED will be turning on and off. When the power is turned off, you cannot turn the power on again until the AC plug is taken out and put in again.

Item	POWER LED ON / OFF intervals
X-ray protection	Turning on and off at 0.1-second intervals
B1 over-current protection	Turning on and off at 1-second intervals
Low B short protection	Turning on and off at 2-second intervals



Victor Company of Japan, Limited
Display Category 12, 3-chome, Moriya-cho, Kanagawa-ku, Yokohama-city, Kanagawa-prefecture, 221-8528, Japan

(No.YA390)



Printed in Japan
VPT

JVC

SCHEMATIC DIAGRAMS

COLOR TELEVISION

AV-30W767_{/S},
AV-30W777_{/S}

CD-ROM No.SML200607



BASIC CHASSIS

SR2

*I'Art*TM_{PRO}
HDTV
HIGH-DEFINITION TELEVISION

HDMITM
HIGH-DEFINITION MULTIMEDIA INTERFACE

BBE




AV-30W767_{IS}, AV-30W777_{IS}

STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the  symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

- (1)Input signal : Colour bar signal
- (2)Setting positions of each knob/button and variable resistor : Original setting position when shipped
- (3)Internal resistance of tester : DC 20k Ω /V
- (4)Oscilloscope sweeping time : H \Rightarrow 20 μ s / div
: V \Rightarrow 5ms / div
: Others \Rightarrow Sweeping time is specified
- (5)Voltage values : All DC voltage values

* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

- In the PW board : R209 \rightarrow R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

● Resistance value

- No unit : [Ω]
- K : [k Ω]
- M : [M Ω]

● Rated allowable power

- No indication : 1/16 [W]
- Others : As specified

● Type

- No indication : Carbon resistor
- OMR : Oxide metal film resistor
- MFR : Metal film resistor
- MPR : Metal plate resistor
- UNFR : Uninflammable resistor
- FR : Fusible resistor

* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

● Capacitance value

- 1 or higher : [pF]
- less than 1 : [μ F]

● Withstand voltage

- No indication : DC50[V]
- Others : DC withstand voltage [V]
- AC indicated : AC withstand voltage [V]

* Electrolytic Capacitors

47/50[Example]: Capacitance value [μ F]/withstand voltage[V]

● Type

- No indication : Ceramic capacitor
- MM : Metalized mylar capacitor
- PP : Polypropylene capacitor
- MPP : Metalized polypropylene capacitor
- MF : Metalized film capacitor
- TF : Thin film capacitor
- BP : Bipolar electrolytic capacitor
- TAN : Tantalum capacitor

(3)Coils

- No unit : [μ H]
- Others : As specified

(4)Power Supply



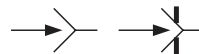
-  : B1
-  : B2 (12V)
-  : 9V
-  : 5V

* Respective voltage values are indicated





(5)Test point

-  : Test point
-  : Only test point display



(6)Connecting method

-  : Connector
-  : Wrapping or soldering
-  : Receptacle

(7)Ground symbol

-  : LIVE side ground
-  : ISOLATED(NEUTRAL) side ground
-  : EARTH ground
-  : DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : () side GND and the ISOLATED(NEUTRAL) : () side GND. Therefore, care must be taken for the following points.

- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

◆ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

NOTE

- ◆ Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list. When ordering parts, please use the numbers that appear in the Parts List.

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POWER & DEF PWB PATTERN

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VOLTAGE CHATRS.....

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USING P.W. BOARD

P.W.B ASS'Y name	AV-30W767/S	AV-30W777/S
MAIN P.W. BOARD	SSR-1503A-M2	SSR-1502A-M2
POWER & DEF P.W. BOARD	SSR-2501A-M2	←
CRT SOCKET P.W. BOARD	SSR-3051A-M2	←
FRONT CONTROL P.W. BOARD	SSR-8051A-M2	←
SIDE CONTROL P.W. BOARD	SSR-8151A-M2	←
SD CARD P.W. BOARD	SSR-8551A-M2	←

SEMICONDUCTOR SHAPES

TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR

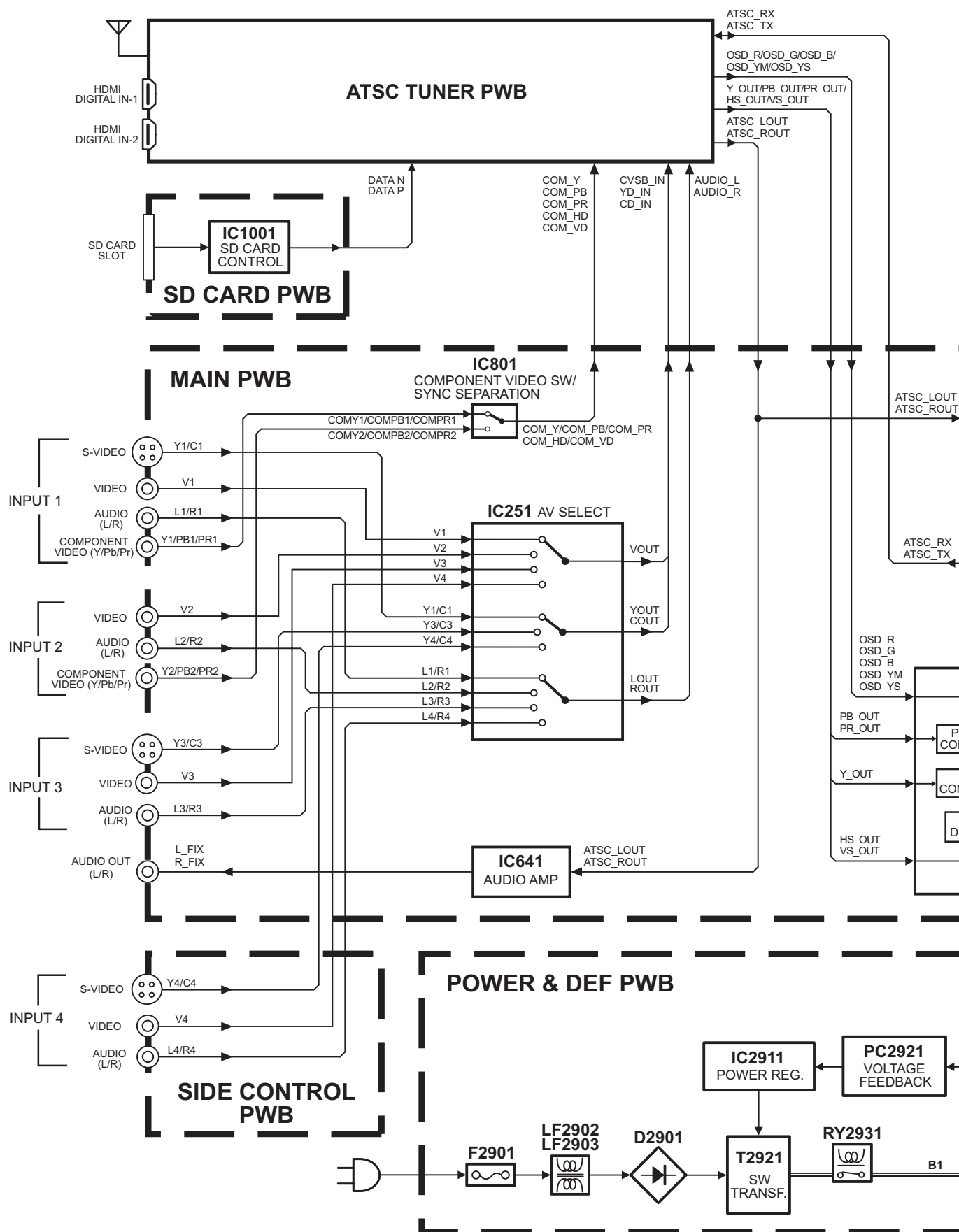
IC

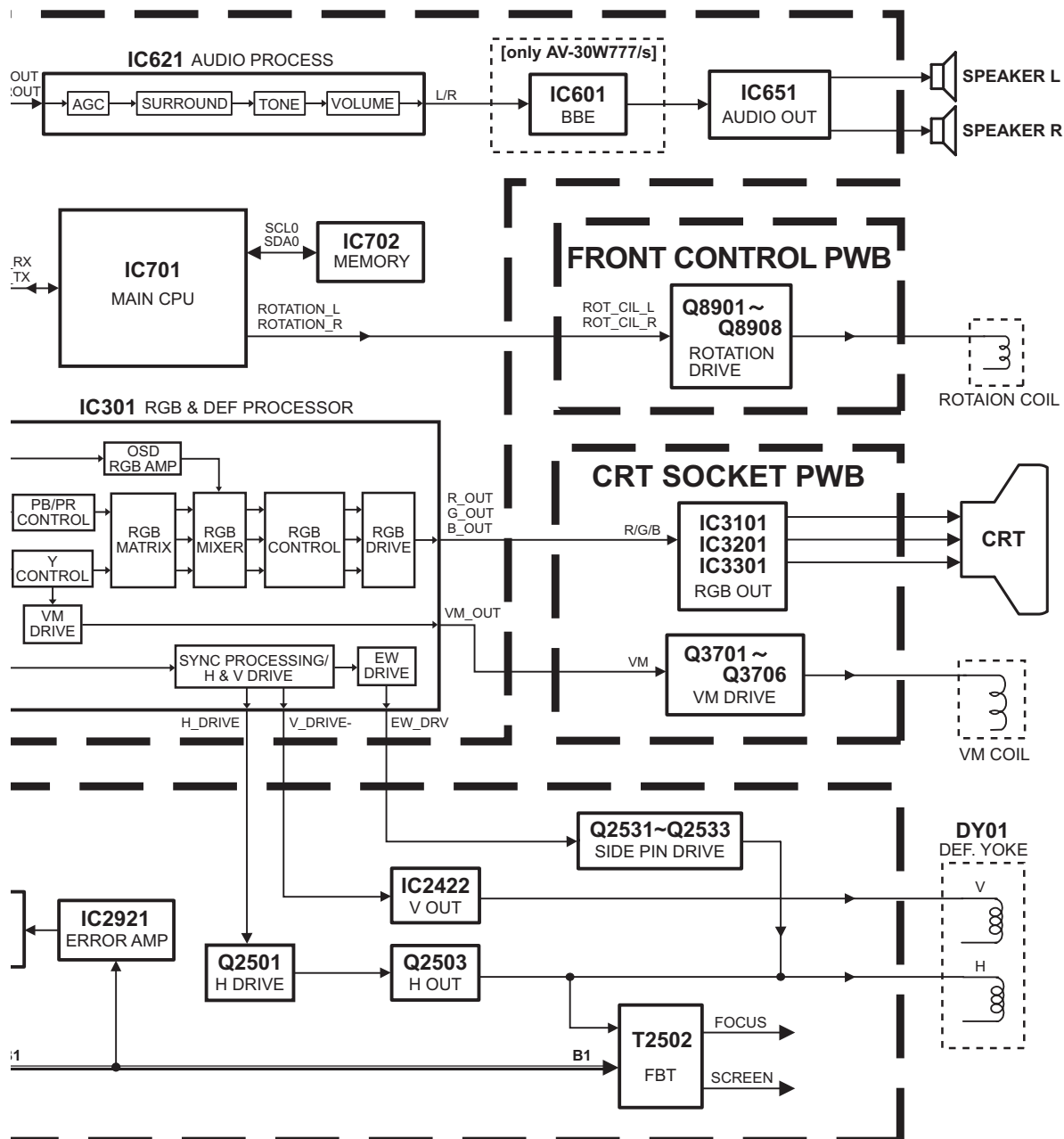
BOTTOM VIEW	FRONT VIEW			TOP VIEW

CHIP IC

TOP VIEW		

BLOCK DIAGRAM

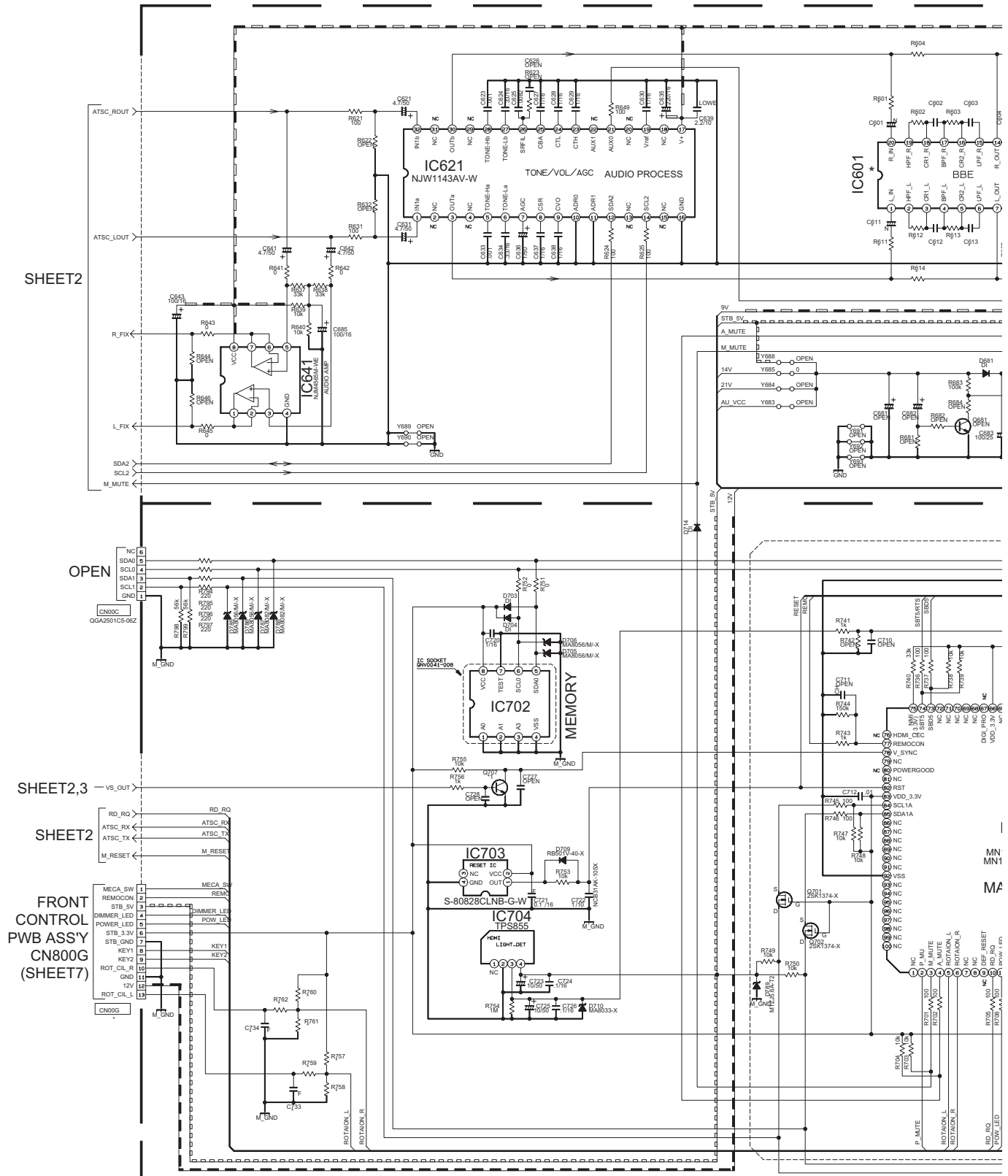




CIRCUIT DIAGRAMS

MAIN PWB CIRCUIT DIAGRAM (1/4) SHEET1

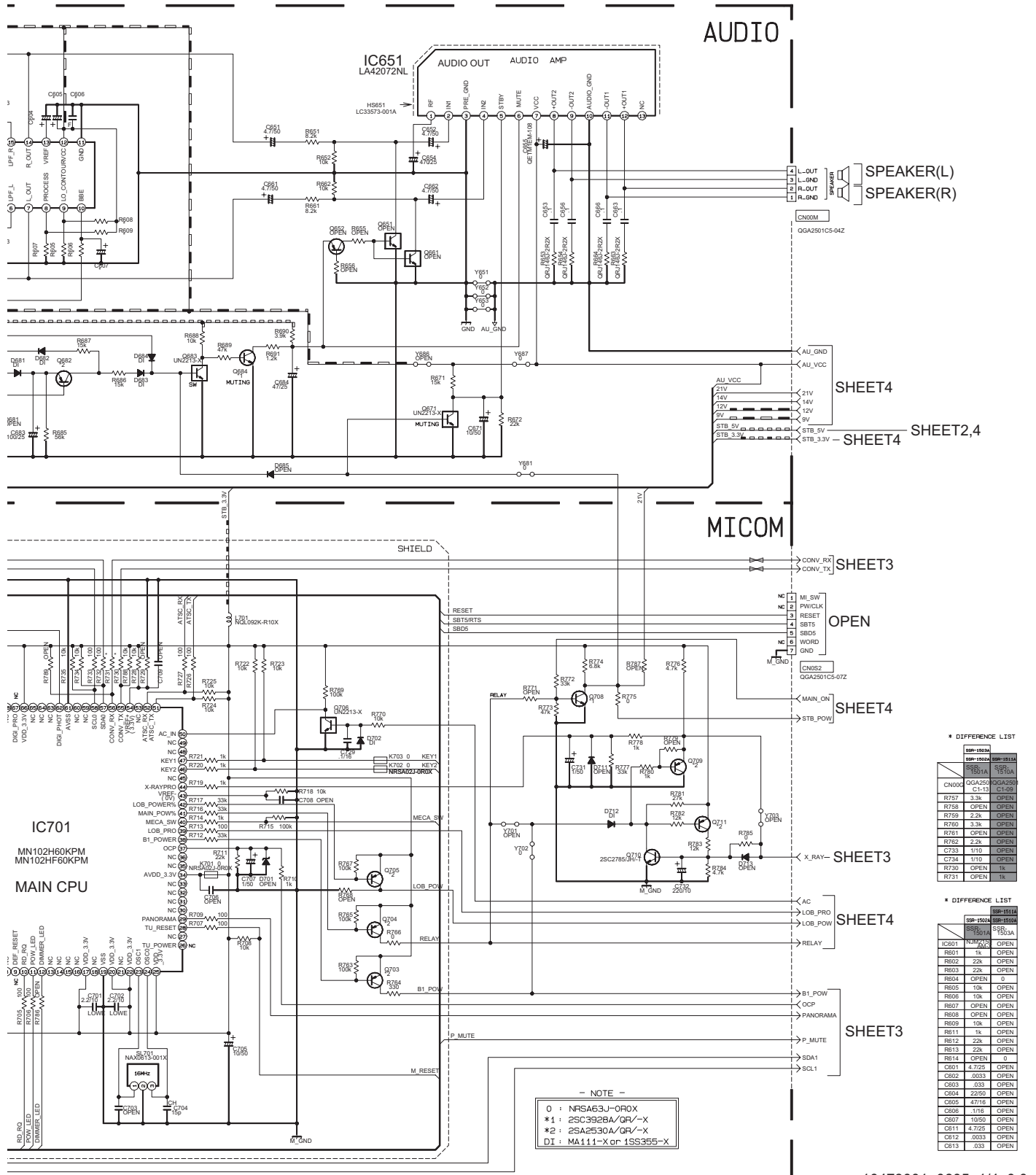
NOTE : Refer to the part list for the part number of IC702.



MAIN PWB ASS'Y(1/4)

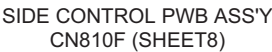
SSR-1503A-M2 [AV-30W767/S]

SSR-1502A-M2 [AV-30W777/S]



c10473001_0605_1/4_0.0

2-7(No.YA390)



OPEN

IC251

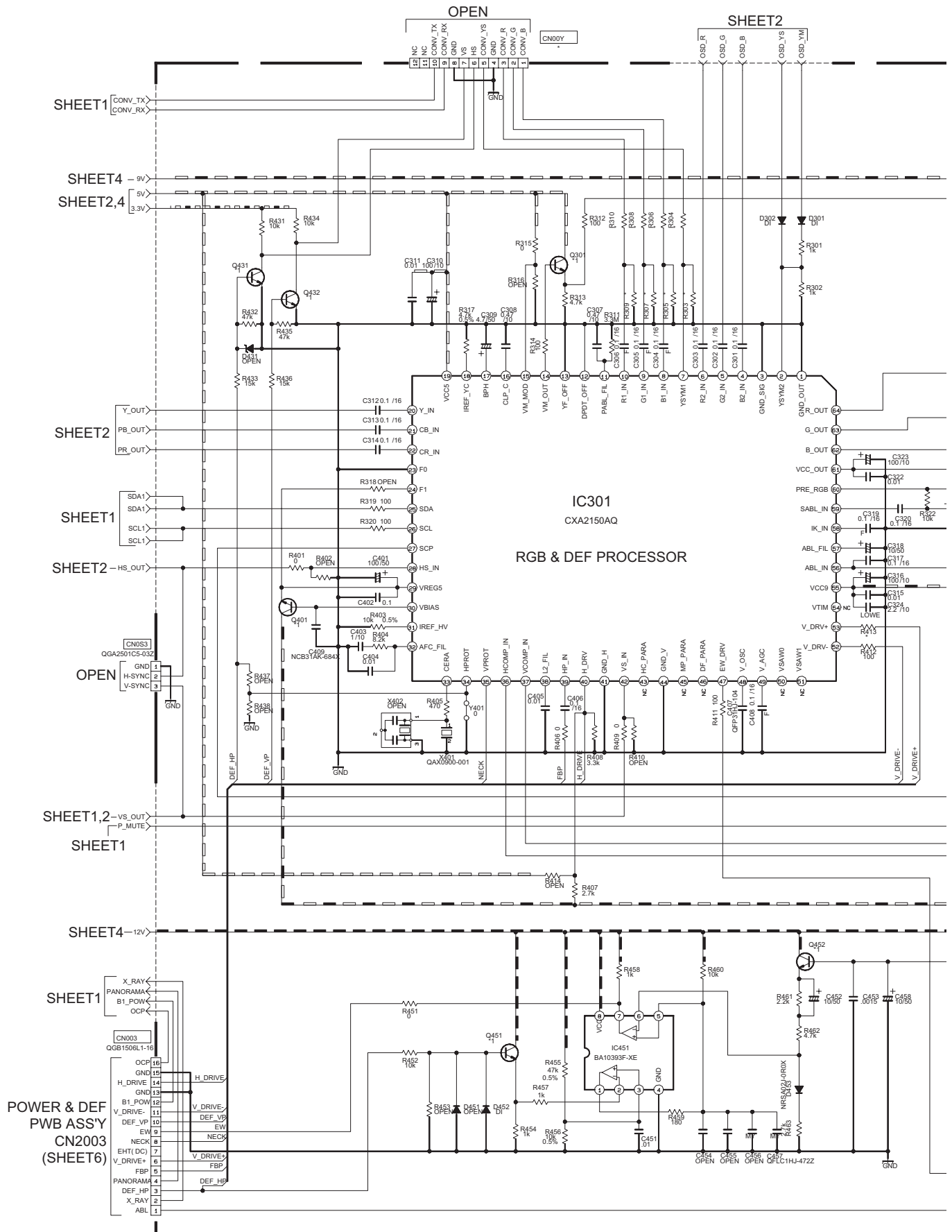
CXA2089Q-X

AV SELECT

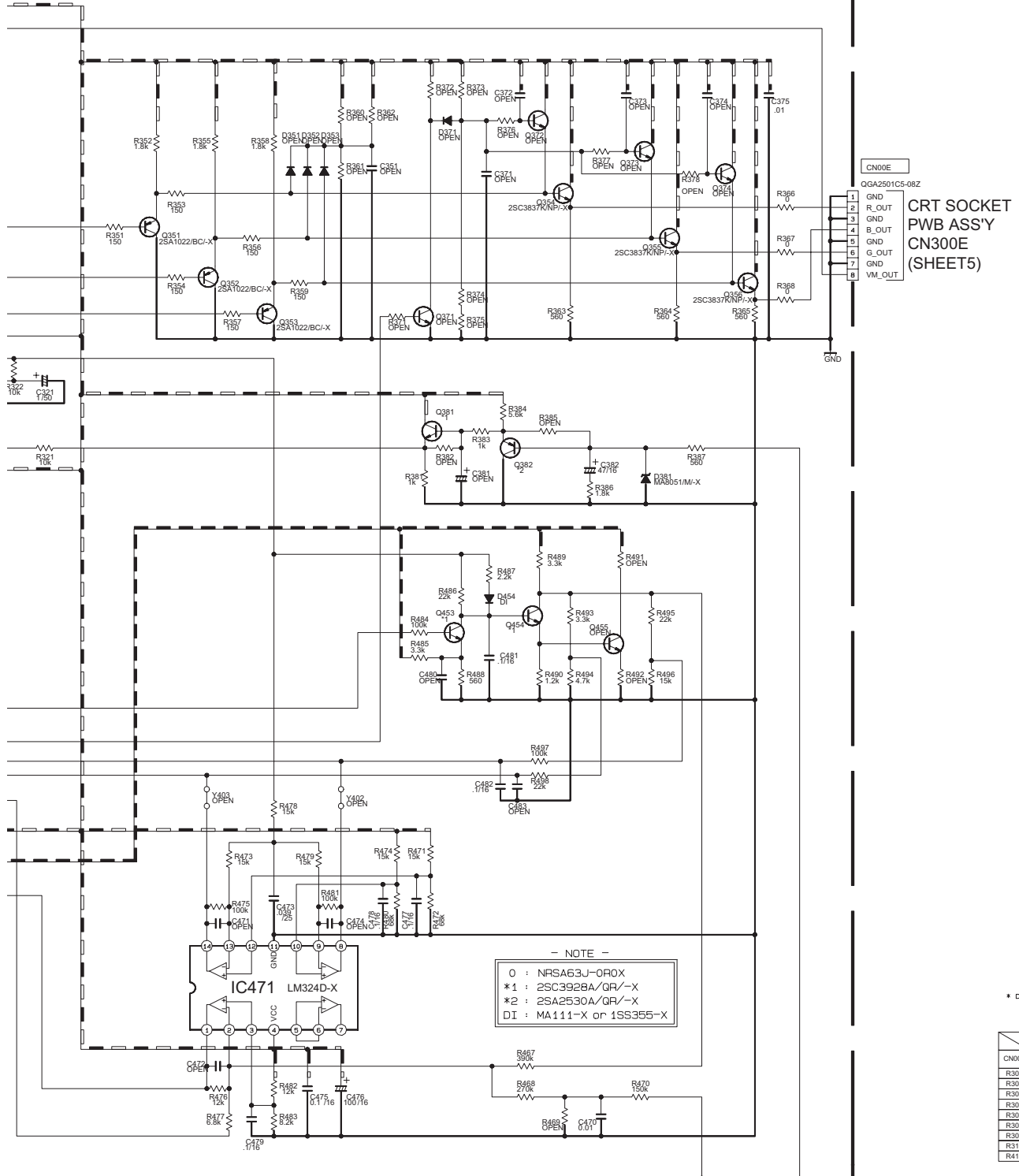
IC801
TB1305FG
COMPONENT VIDEO
SYNC SEPARATE

INPUT 1		
τ	τ	τ

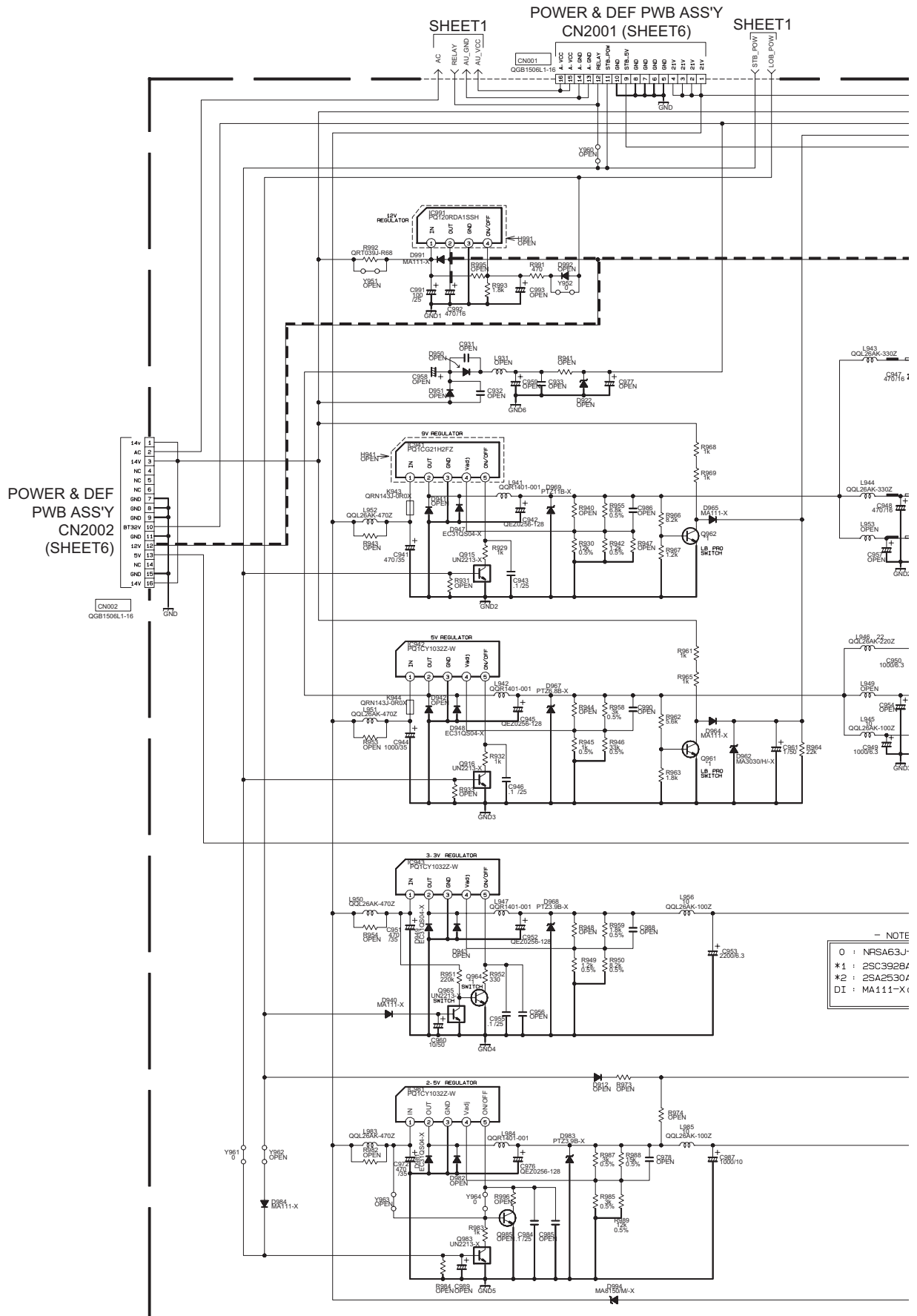
MAIN PWB CIRCUIT DIAGRAM (3/4) SHEET 3

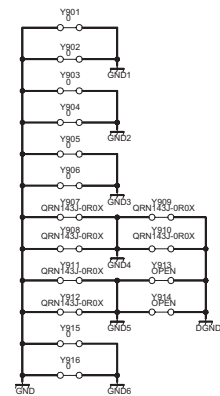
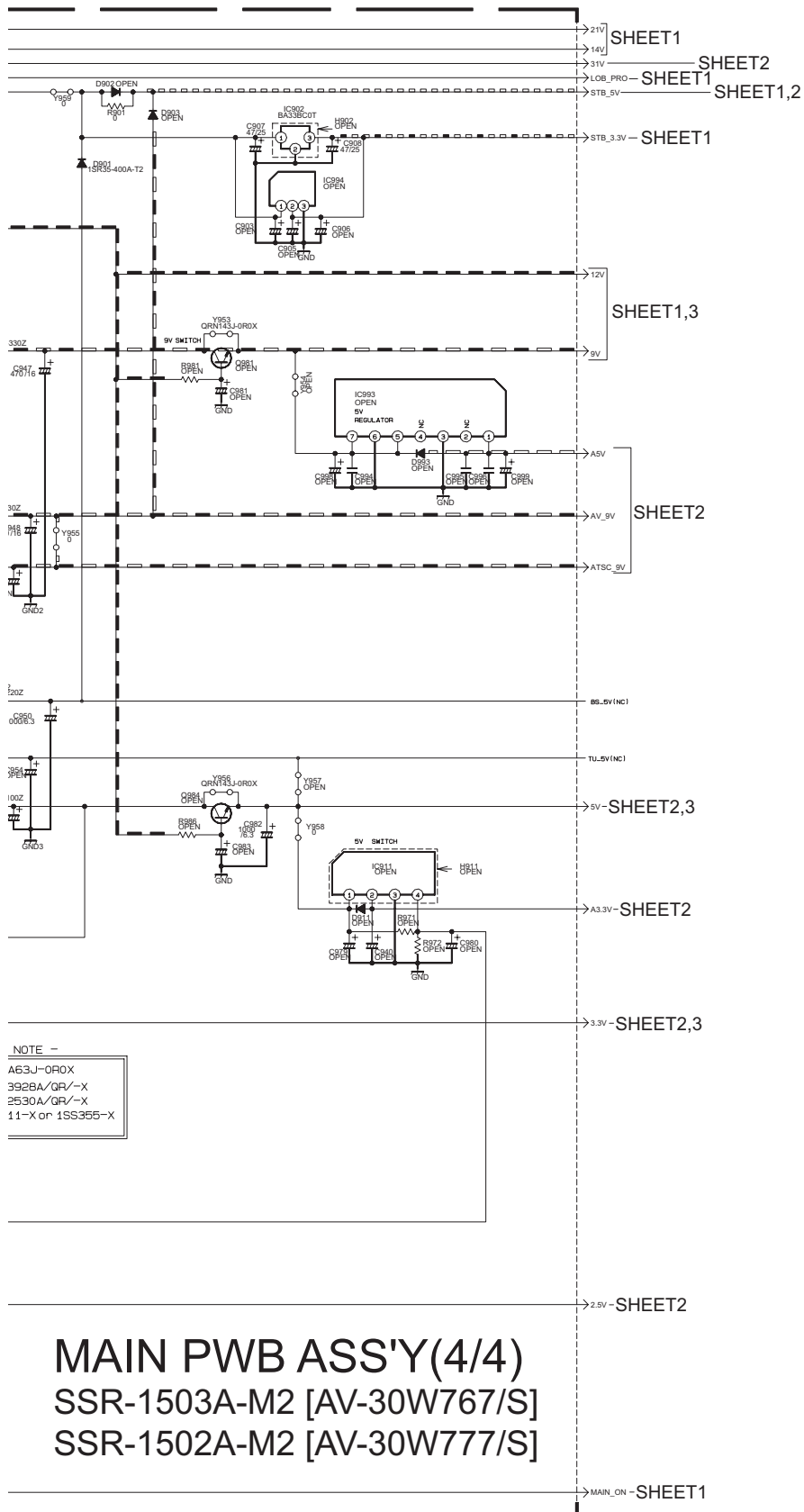


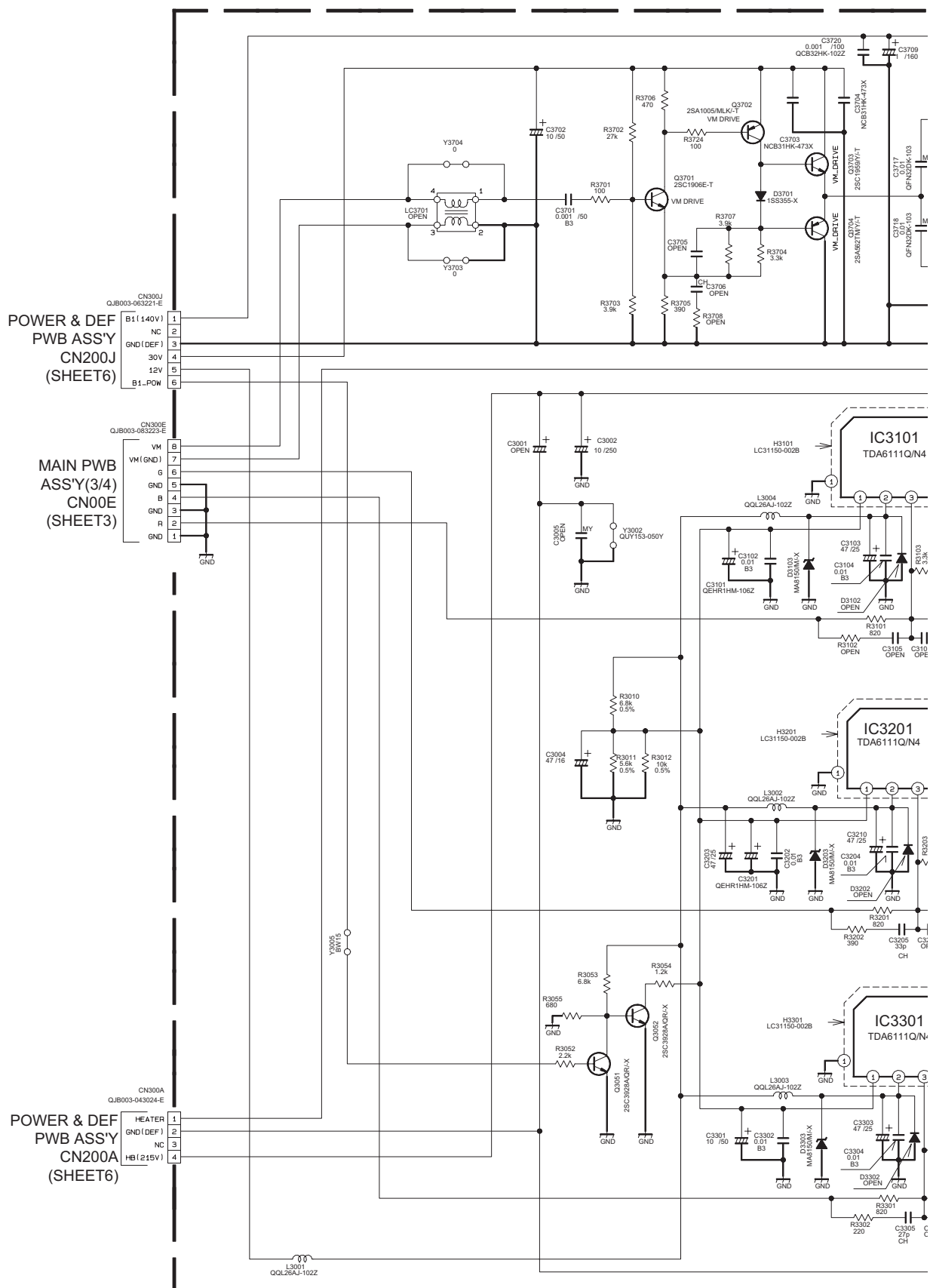
MAIN PWB ASS'Y(3/4) SSR-1503A-M2 [AV-30W767/S] SSR-1502A-M2 [AV-30W777/S]



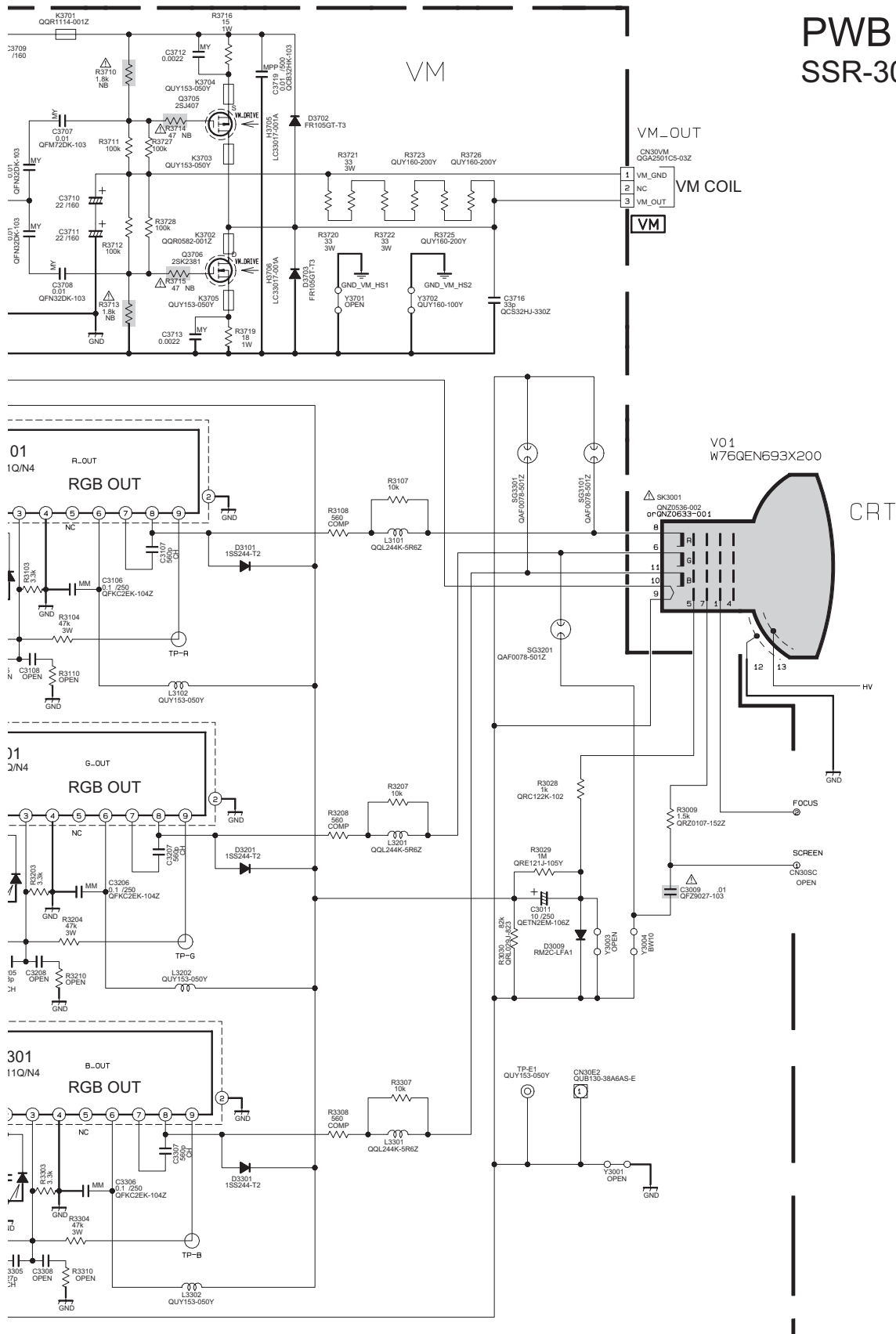
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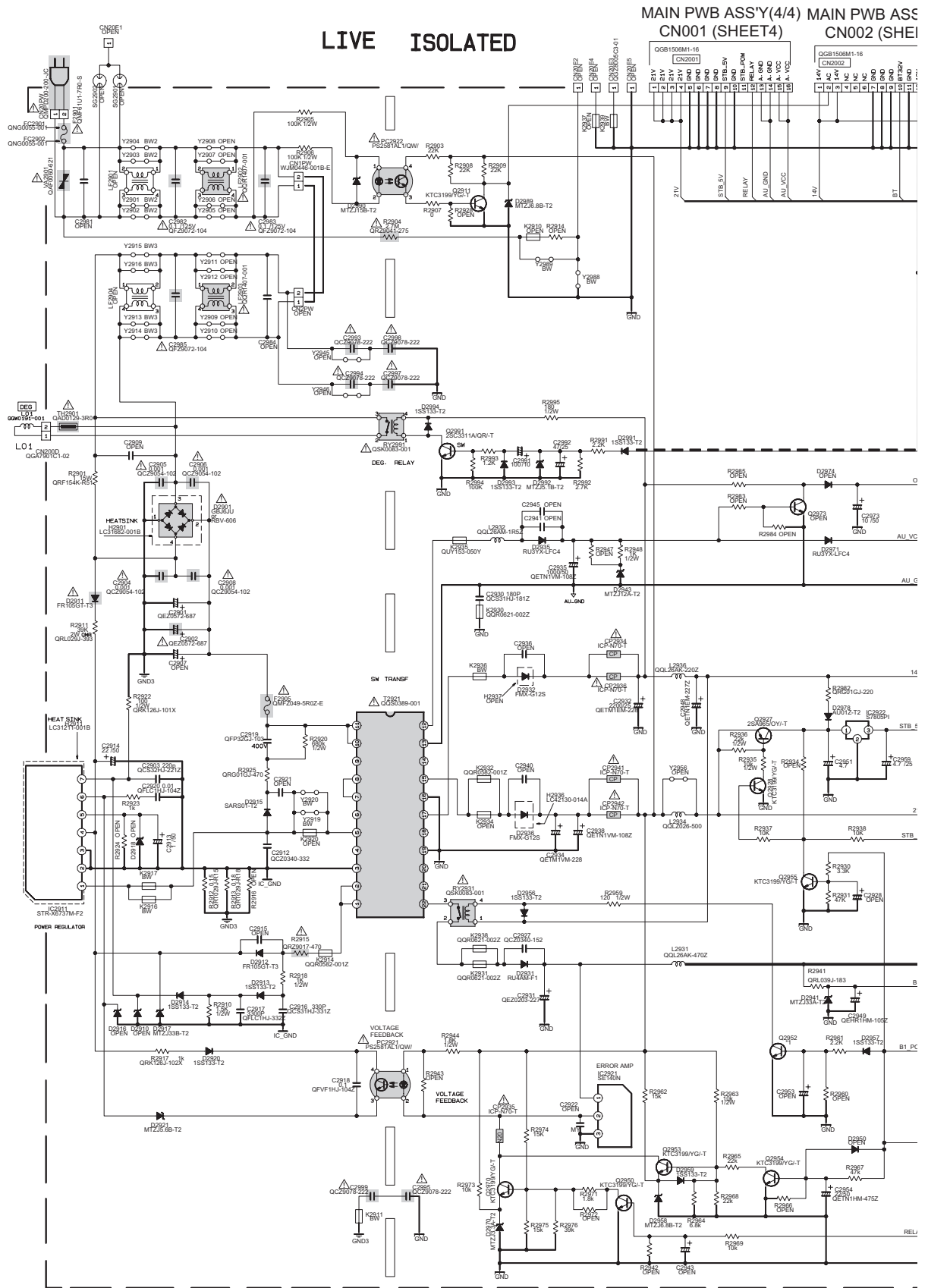




CRT SOCKET
PWB ASS'Y
SSR-3051A-M2

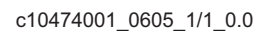


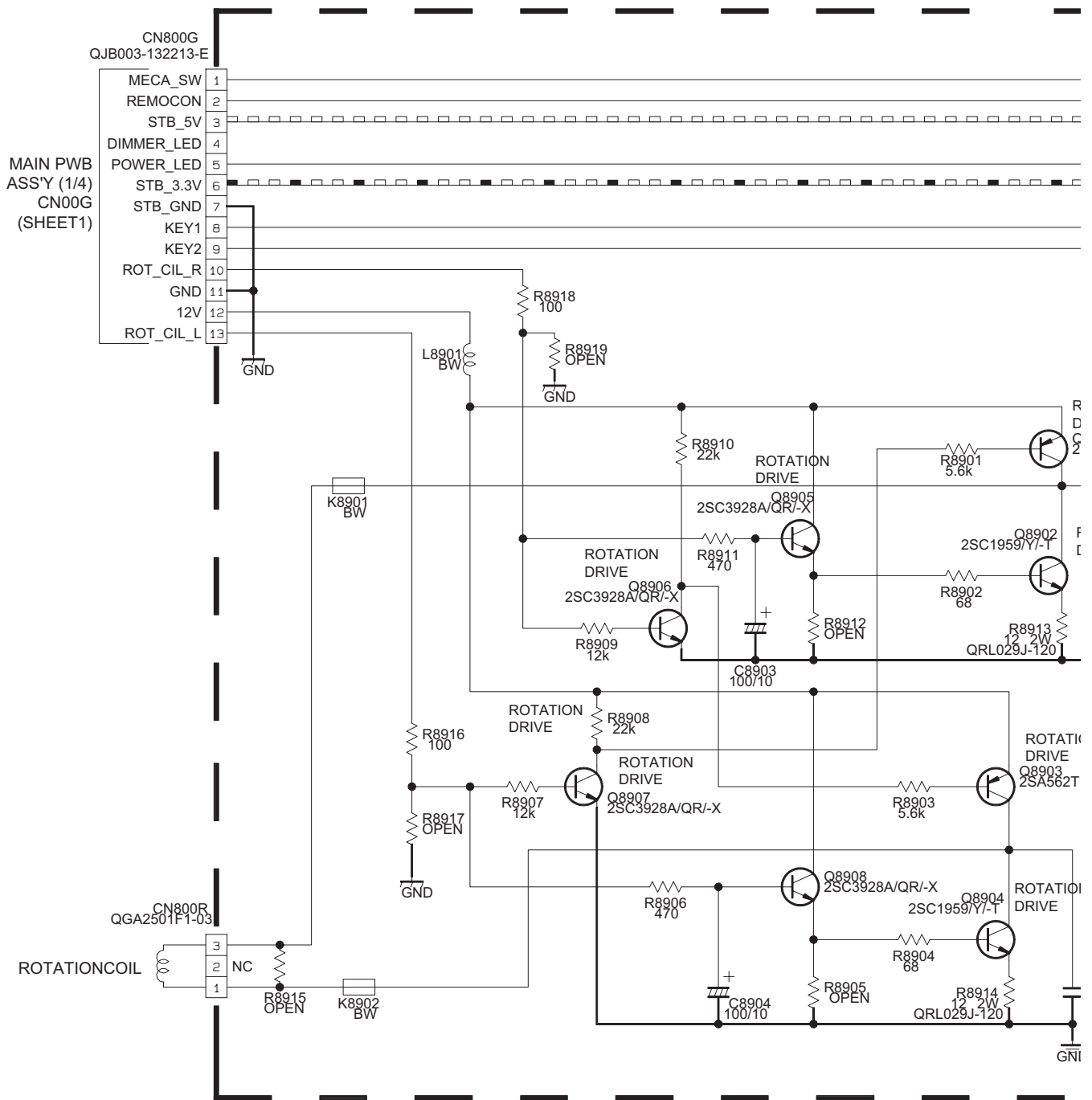
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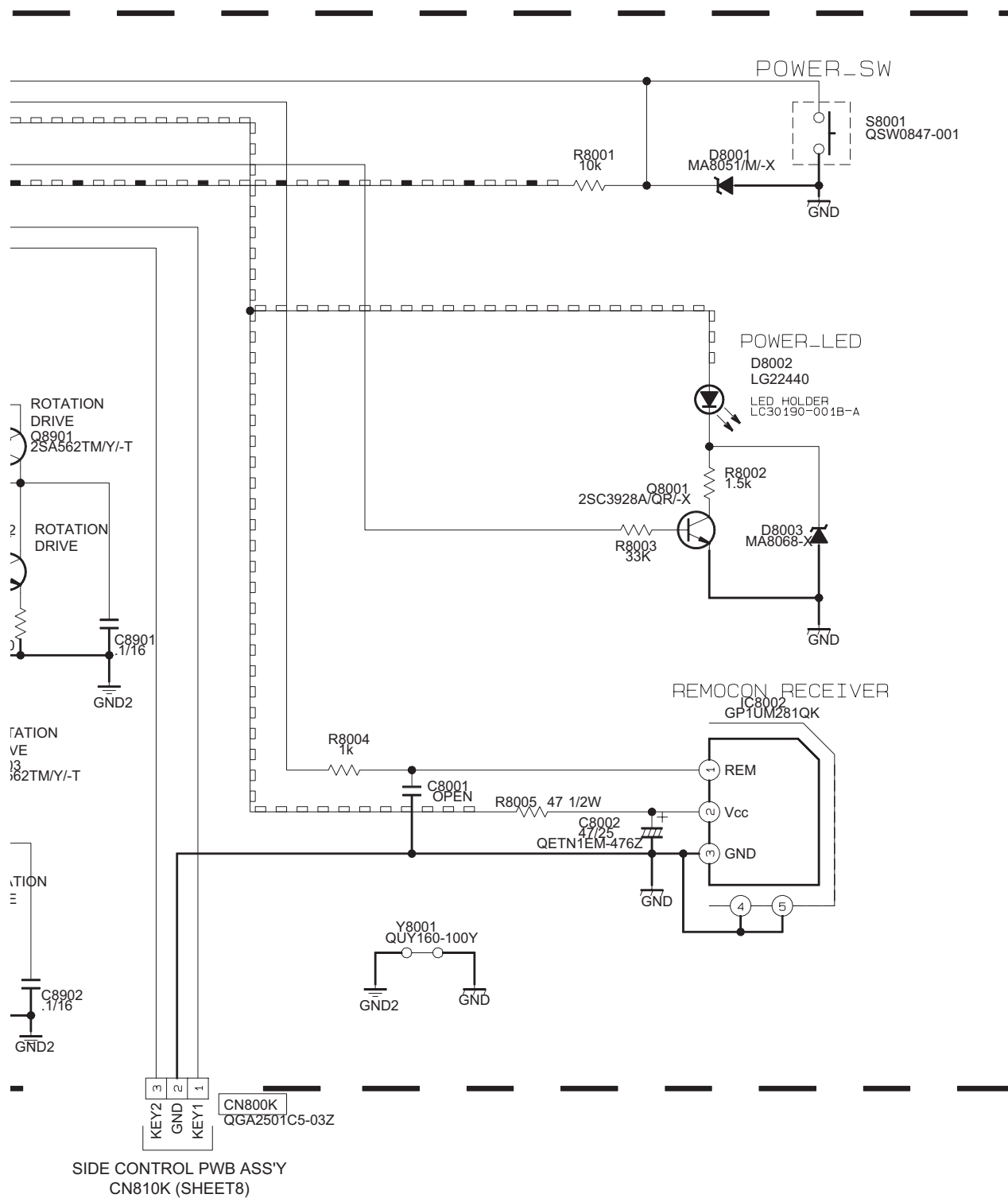
POWER & DEF PWB ASS'Y

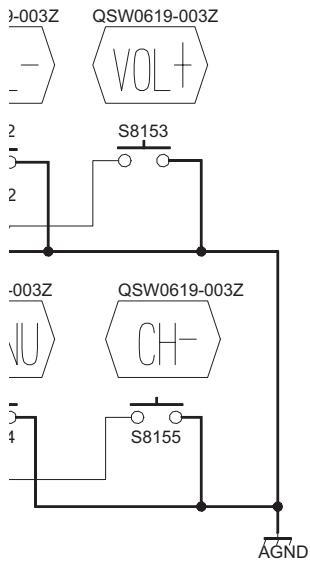
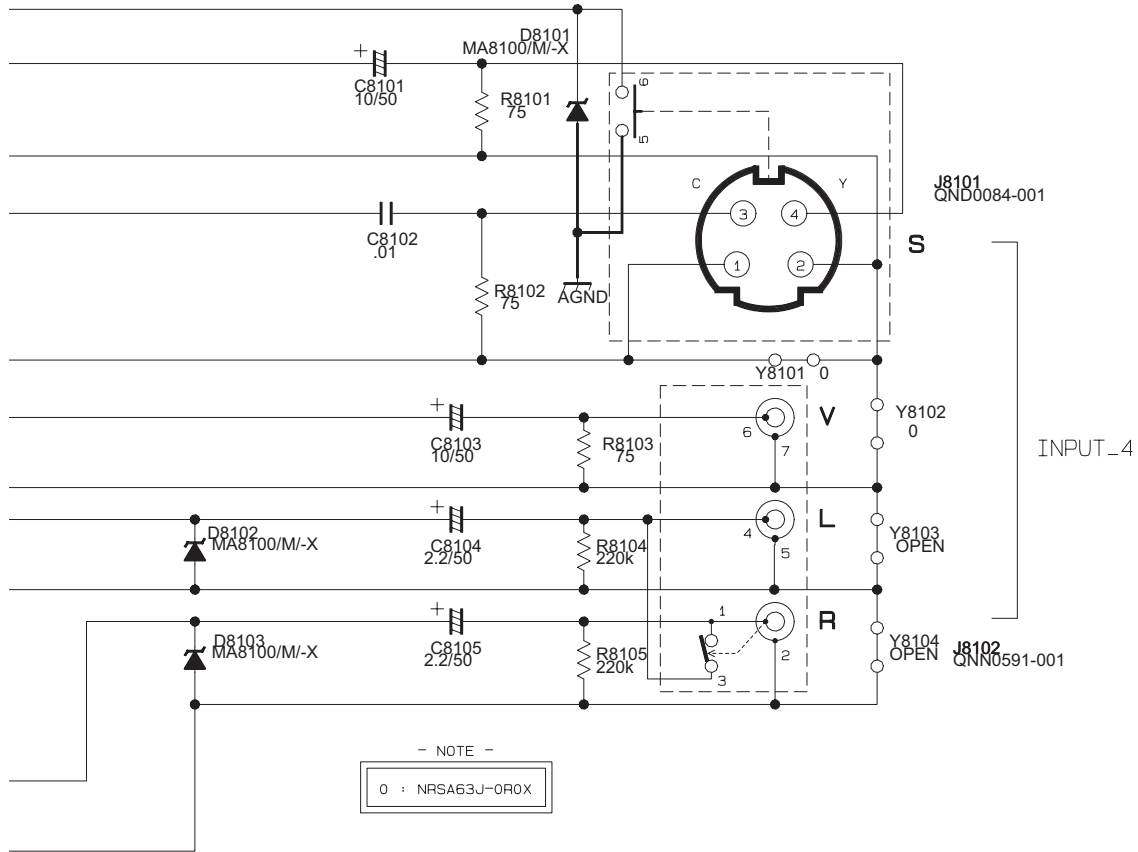
SSR-2501A-M2



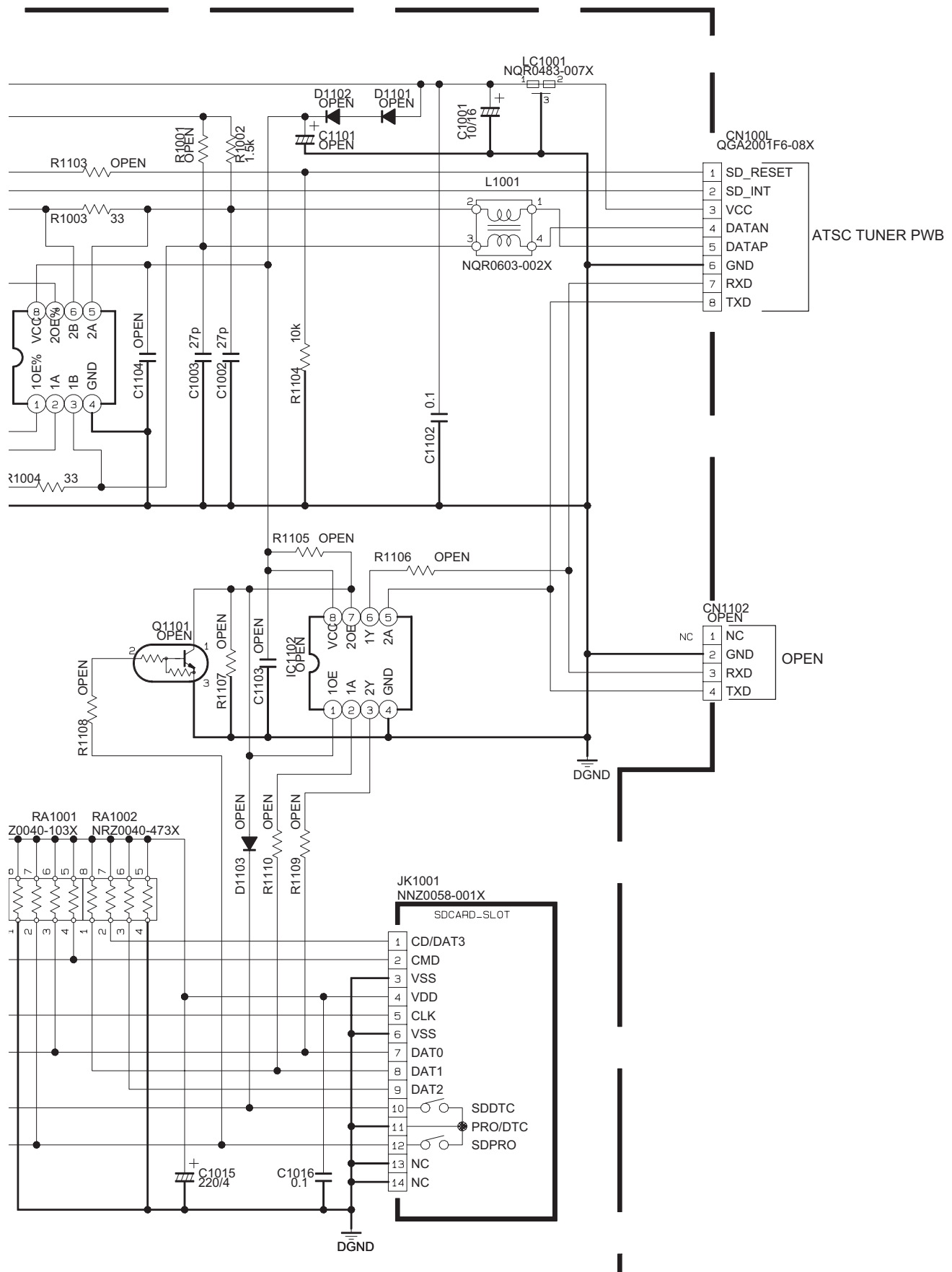


FRONT CONTROL PWB ASS'Y
SSR-8051A-M2





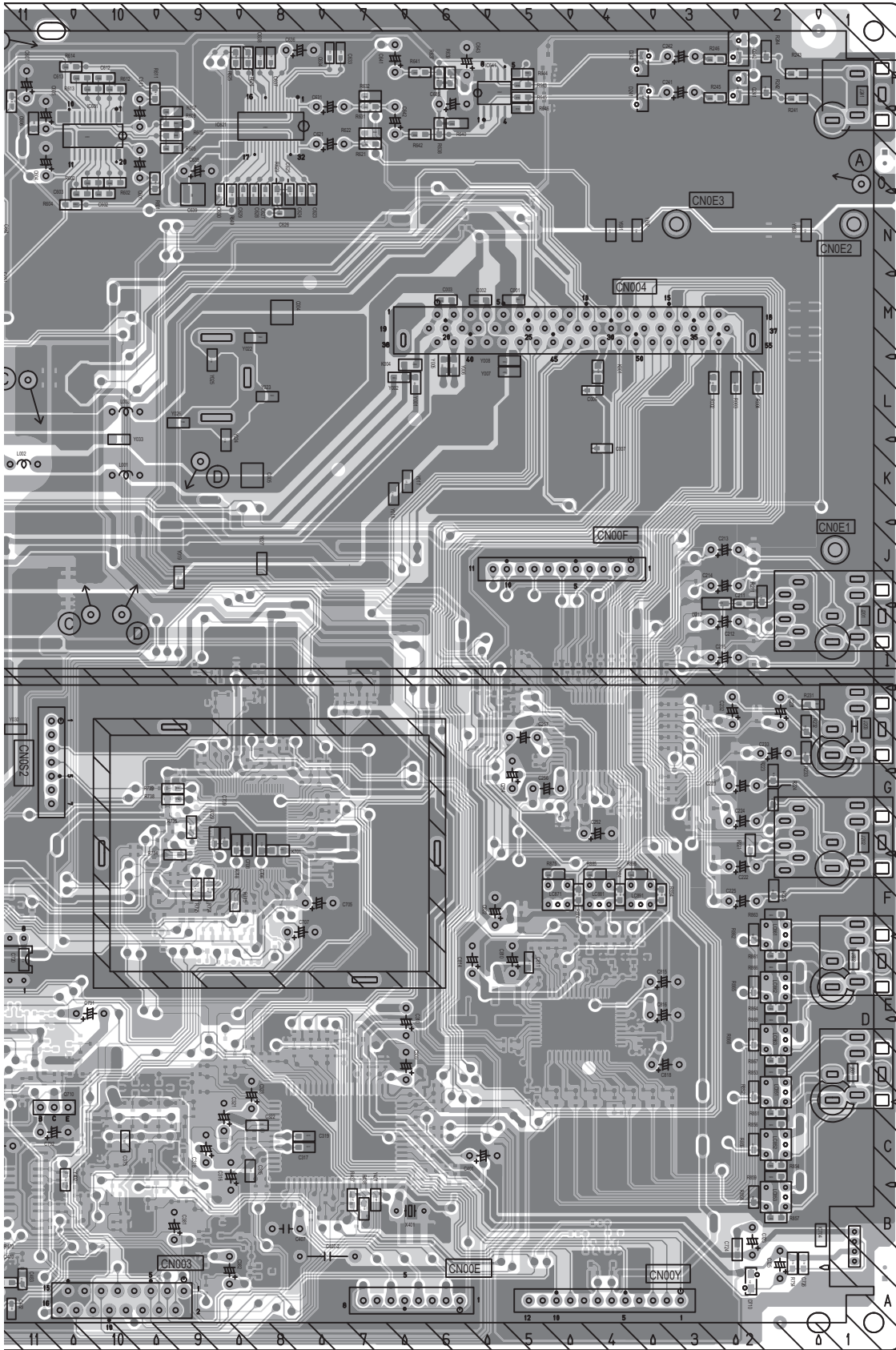
SIDE CONTROL PWB ASS'Y SSR-8151A-M2

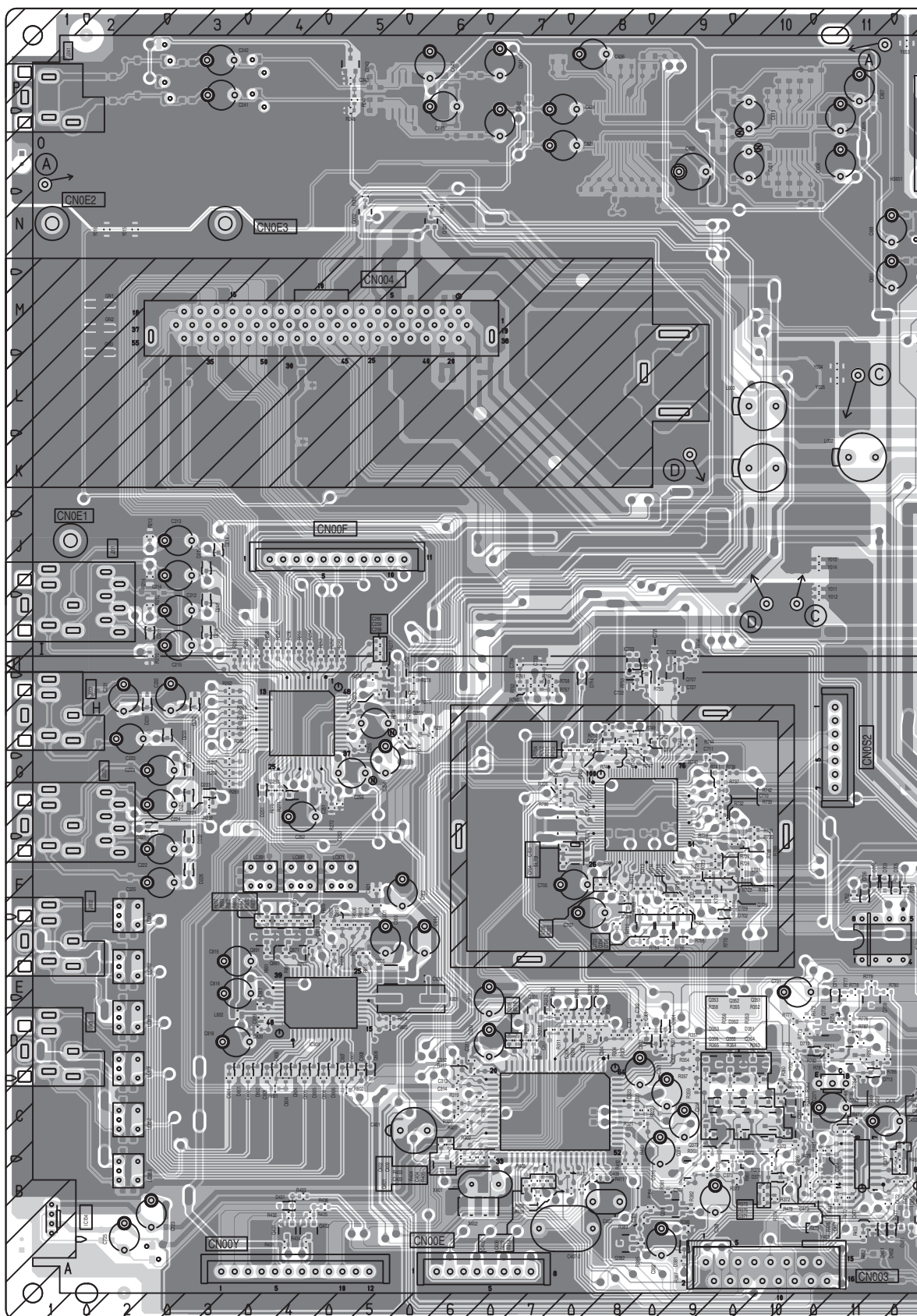


c30210001_0605_1/1_0.0

MAIN PWB PATTERN [SOLDER SIDE]

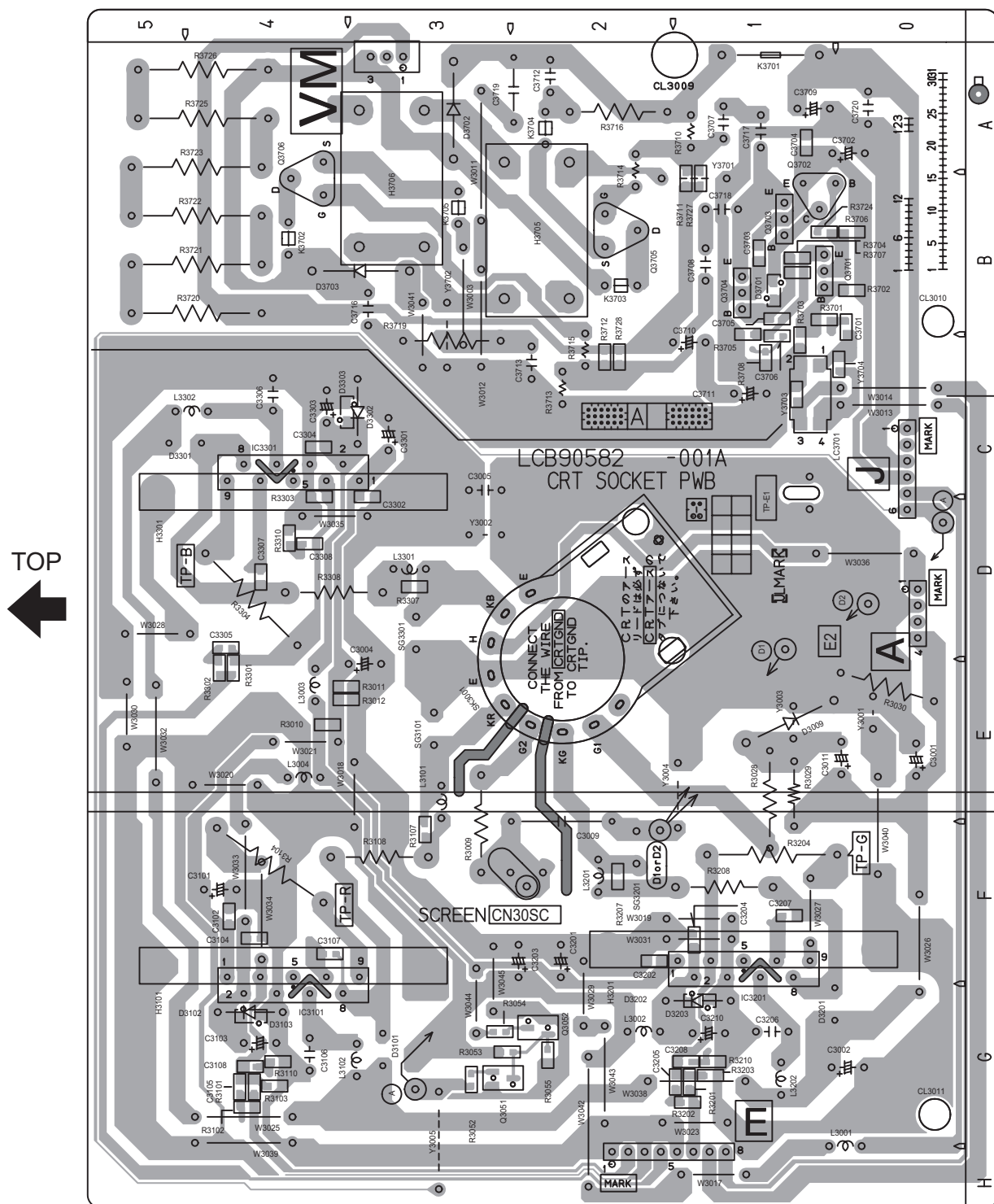




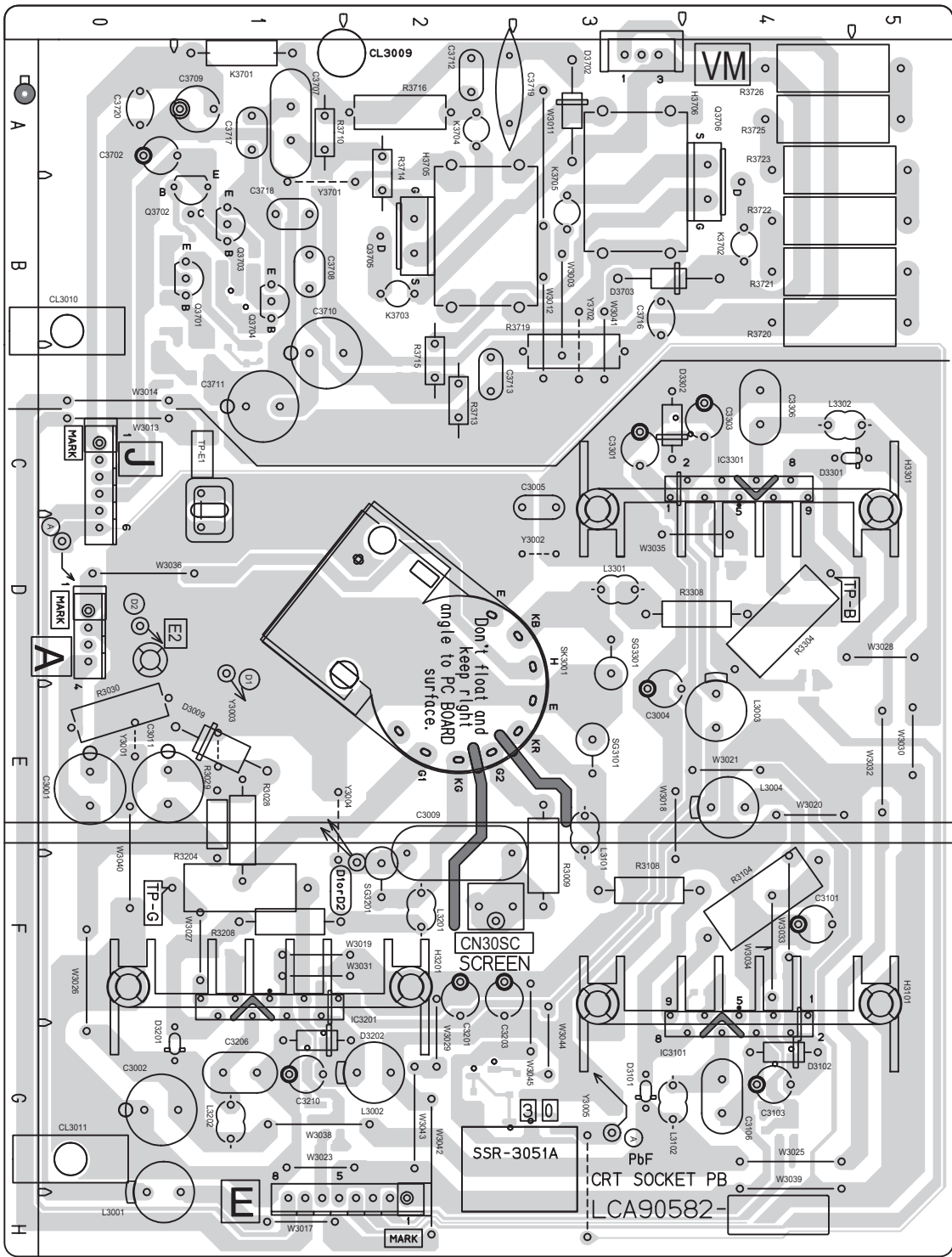




2-27(No.YA390)



CRT SOCKET PWB PATTERN [PARTS SIDE]

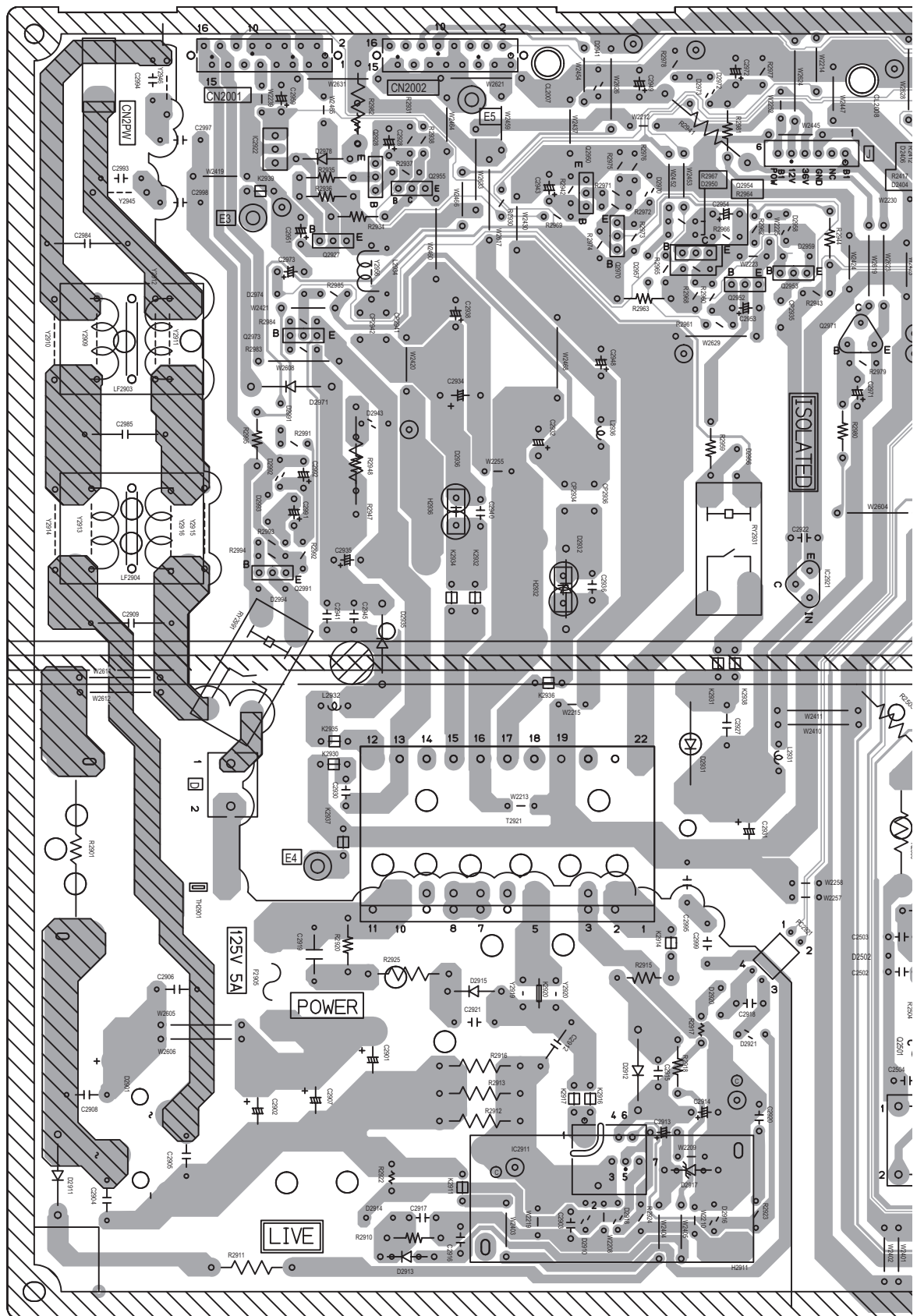


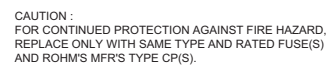
TOP



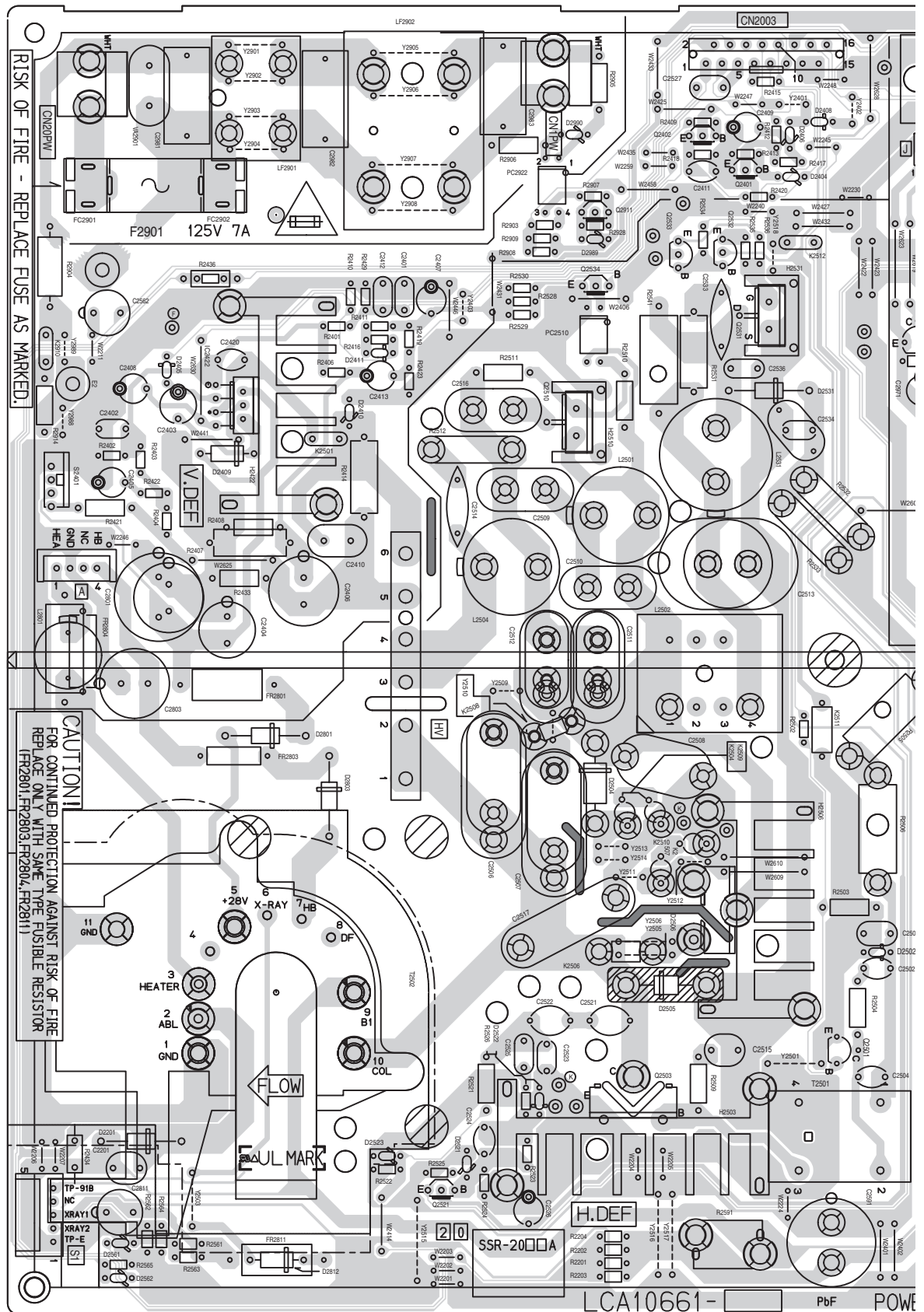
POWER & DEF PWB PATTERN [SOLDER SIDE]

FRONT



POWER & DEF PWB PATTERN [PARTS SIDE]



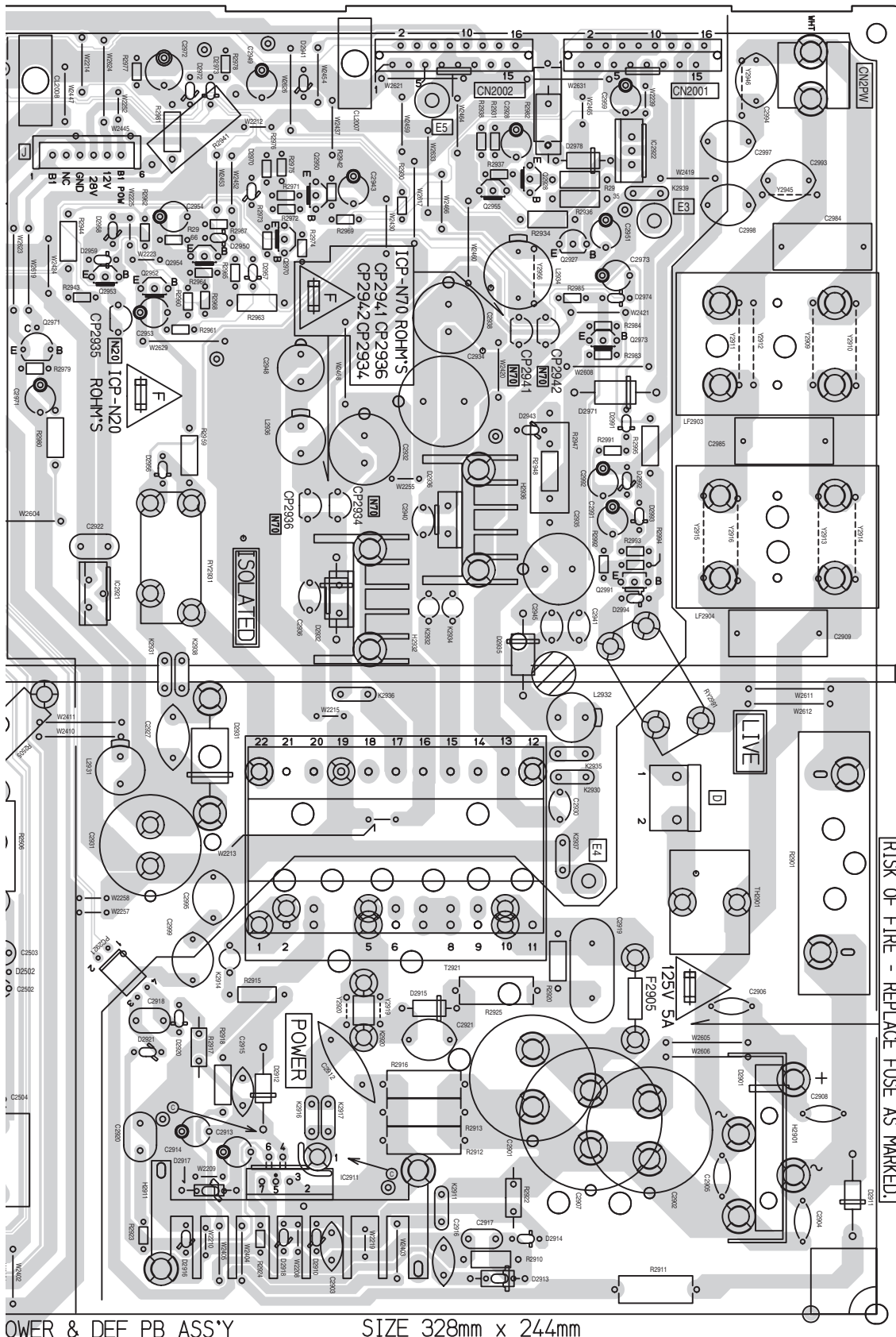


CAUTION :
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH SAME TYPE AND RATED FUSE(S)
AND ROHM'S MFR'S TYPE CP(S).

FRONT



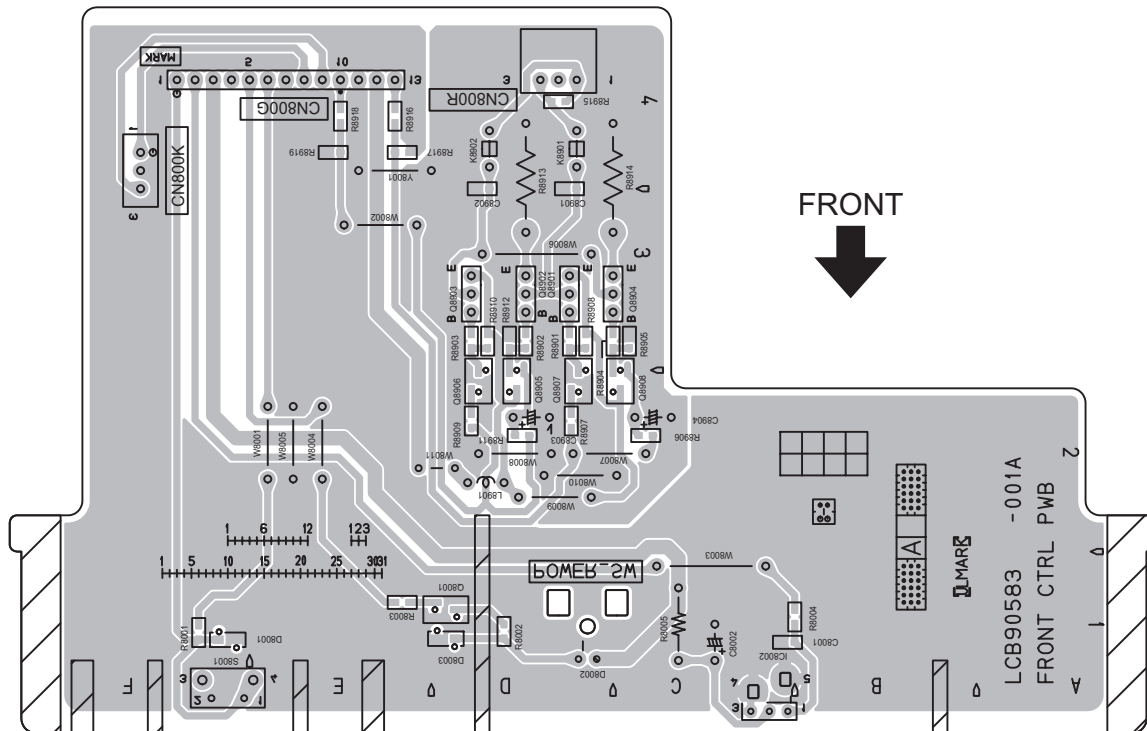
RISK OF FIRE - REPLACE FUSE AS MARKED.



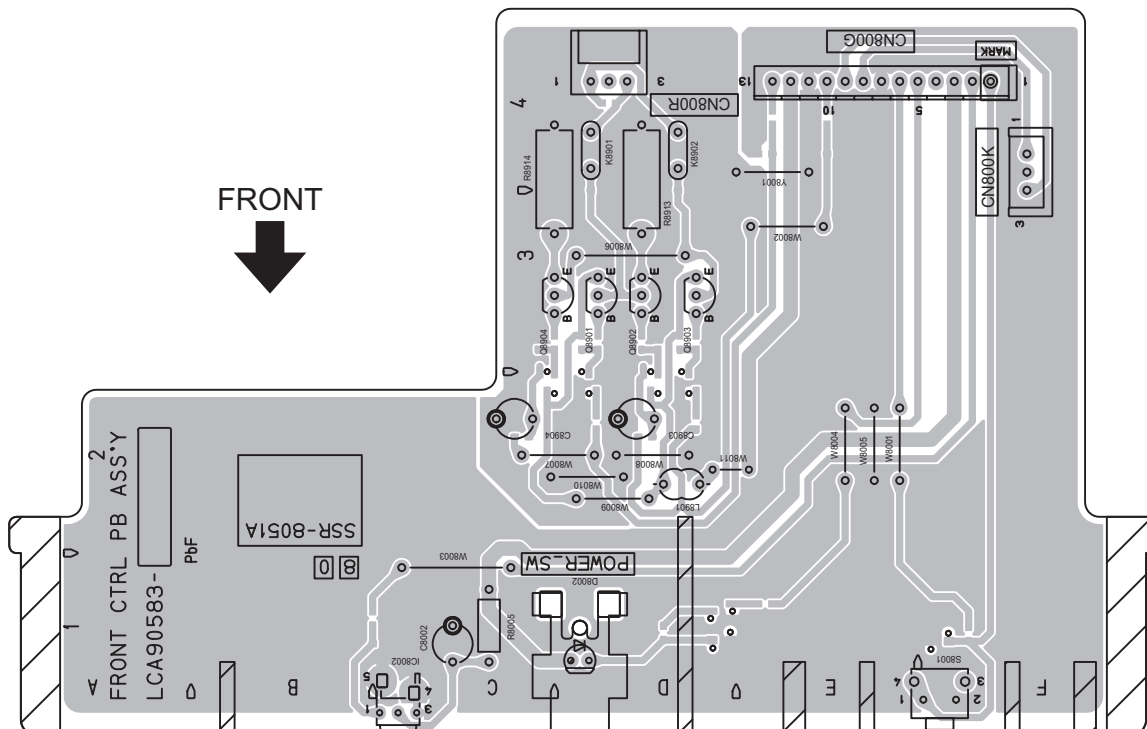
POWER & DEF PB ASS'Y

SIZE 328mm x 244mm

FRONT CONTROL PWB PATTERN [SOLDER SIDE]



FRONT CONTROL PWB PATTERN [PARTS SIDE]



VOLTAGE CHARTS

<MAIN PWB>
[P.2-7 - P.2-8]

MODE PIN NO.	DC (V)
IC601	
1	4.5
2	4.5
3	4.5
4	4.5
5	4.5
6	4.5
7	4.5
8	0
9	8.3
10	4.5
11	0
12	9
13	0
14	4.5
15	4.5
16	4.5
17	4.5
18	4.5
19	4.5
20	4.5
IC621	
1	4.5
2	NC
3	4.5
4	NC
5	4.5
6	4.5
7	1
8	0.5
9	4.3
10	0
11	0
12	4.9
13	NC
14	4.9
15	NC
16	0
17	9
18	NC
19	4.4
20	NC
21	0
22	NC
23	2.9
24	3.3
25	3.2
26	4.5
27	4.5
28	4.5
29	NC
30	4.5
31	NC
32	4.5
IC641	
1	4.5
2	4.5
3	4.5
4	0
5	4.5
6	4.5
7	4.5
8	9
IC651	
1	18.5
2	0
3	0
4	0
5	7.8
6	1.1
7	19.5
8	19.3
9	9.2
10	0
11	0
12	0
13	NC
IC701	
1	NC
2	0
3	0
4	0
5	0
6	0
7	NC
8	NC
9	NC
10	3.3
11	3.2
12	0
13	NC
14	NC
15	NC
16	NC
17	3.2
18	3.2
19	0

MODE PIN NO.	DC (V)
20	3.2
21	NC
22	3.2
23	1.5
24	1.6
25	3.2
26	NC
27	NC
28	0
29	3.2
30	NC
31	NC
32	NC
33	NC
34	3.2
35	NC
36	NC
37	0
38	0
39	0
40	0
41	0
42	0
43	0.1
44	2.7
45	3.2
46	3.1
47	3.1
48	NC
49	NC
50	*
51	3.3
52	3.2
53	NC
54	3.1
55	3.2
56	3.2
57	3.1
58	3.1
59	NC
60	NC
61	0
62	1.7
63	NC
64	NC
65	NC
66	3.2
67	NC
68	NC
69	NC
70	NC
71	NC
72	NC
73	3.1
74	3.1
75	*
76	3.2
77	2.8
78	3.2
79	NC
80	NC
81	NC
82	3.2
83	3.2
84	3.3
85	3.3
86	NC
87	NC
88	NC
89	NC
90	NC
91	NC
92	0
93	NC
94	NC
95	NC
96	NC
97	NC
98	NC
99	NC
100	NC
IC702	
1	0
2	0
3	0
4	0
5	3.1
6	3.1
7	0
8	3.2
IC703	
1	3.2
2	3.2
3	NC
4	0

MODE PIN NO.	DC (V)
IC704	
1	NC
2	0
3	2.2
4	4.9
Q671	
E	0
C	7.9
B	0
Q682	
E	14.8
C	-0.4
B	15.2
Q683	
E	0
C	4.2
B	0.3
Q684	
E	0
C	0
B	0.6
Q701	
S	3.8
D	3.2
G	3.2
Q702	
S	3.8
D	3.3
G	3.2
Q703	
E	3.2
C	3.1
B	2.6
Q704	
E	3.2
C	3.2
B	2.6
Q705	
E	3.2
C	3.1
B	0
Q708	
E	0
C	0
B	0.6
Q709	
E	2.8
C	0
B	3.3
Q710	
E	0
C	3.4
B	0
Q711	
E	3.2
C	0
B	3.5

MODE PIN NO.	DC (V)
IC251	
1	3.9
2	4.5
3	3.9
4	4.5
5	4.5
6	NC
7	4.9
8	4
9	4.5
10	3.9
11	4.5
12	4.5
13	0
14	5
15	4
16	4.5
17	0
18	4.5
19	4.5
20	0
21	5
22	0
23	0
24	4.5
25	0
26	4.9
27	4.9

MODE PIN NO.	DC (V)
28	NC
29	4.3
30	NC
31	0
32	NC
33	NC
34	9
35	0
36	3.9
37	4.5
38	0
39	4.5
40	3.6
41	4.5
42	NC
43	NC
44	0
45	NC
46	4.5
47	3.9
48	4.5
IC801	
1	2.8
2	0
3	2.8
4	0
5	2.2
6	0
7	0
8	1.8
9	0
10	2.8
11	0
12	2.8
13	0
14	2.2
15	0
16	1.8
17	2.4
18	0
19	4.9
20	0
21	4.1
22	3.4
23	0.8
24	0.8
25	0.8
26	0.8
27	0
28	0
29	3.4
30	0
31	5
32	1.5
33	0
34	2.1
35	2.4
36	2.1
37	0
38	0
39	0
40	1.7
41	0
42	2.4
43	0
44	0
45	1.8
46	5
47	2.2
48	0
Q001	
S	3.3
D	4.9
G	3.3
Q002	
S	3.3
D	4.9
G	3.3
Q241	
E	0
C	0
B	-1
Q242	
E	0
C	0
B	-1
Q243	
E	0.1
C	0
B	0
Q251	
E	2.3
C	0
B	1.7

MODE PIN NO.	DC (V)
Q252	
E	2.7
C	0
B	2.1
Q253	
E	2.4
C	0
B	1.8
Q871	
E	2.1
C	0
B	1.5
Q881	
E	2.8
C	0
B	2.1
CN004	
1	5
2	0
3	3.3
4	0
5	2.5
6	0
7	3.3
8	NC
9	0
10	0
11	3.3
12	3
13	1.3
14	0
15	0
16	2.8
17	3.4
18	2.7
19	5
20	0
21	3.3
22	3.3
23	2.5
24	2.5
25	3.3
26	0.3
27	0
28	0
29	0
30	0
31	0
32	1.2
33	0
34	0
35	2.4
36	0
37	2.8
38	31.7
39	0
40	0
41	0
42	0
43	3.2
44	3.3
45	0.3
46	0
47	0
48	9
49	3.1
50	1.1
51	0
52	0
53	2.5
54	3.4
55	2.2

MODE PIN NO.	DC (V)
IC301	
1	0
2	0
3	0
4	1.9
5	0
6	1.9
7	0
8	3.6
9	3.6
10	3.6
11	0
12	0
13	0
14	2.4
15	0
16	2.7

MODE PIN NO.	DC (V)
17	2.6
18	0
19	0
20	3.5
21	3.4
22	3.4
23	0
24	2
25	3.8
26	3.8
27	0.7
28	0
29	5
30	0
31	3.3
32	3
33	1.6
34	0
35	0
36	7.7
37	7.7
38	3.4
39	2.1
40	2.5
41	0
42	0
43	NC
44	0
45	NC
46	NC
47	4.2
48	4.4
49	5.5
50	NC
51	NC
52	0
53	0
54	NC
55	9
56	5
57	0
58	0
59	2.3
60	1.9
61	9
62	1.9
63	1.8
64	1.8
IC451	
1	2.5
2	1.5
3	2
4	0
5	2.7
6	0.9
7	10.3
8	11.9
IC471	
1	3.7
2	4.1
3	4.1
4	9
5	NC
6	NC
7	NC
8	0
9	0
10	7.4
11	0
12	7.4
13	3.6
14	7.7
Q301	
E	1.9
C	5
B	2.5
Q351	
E	2.6
C	0
B	1.8
Q352	
E	2.5
C	0
B	1.8
Q353	
E	2.6
C	0
B	1.9
Q354	
E	2.1
C	9
B	2.6
Q355	
E	2
C	9
B	2.5

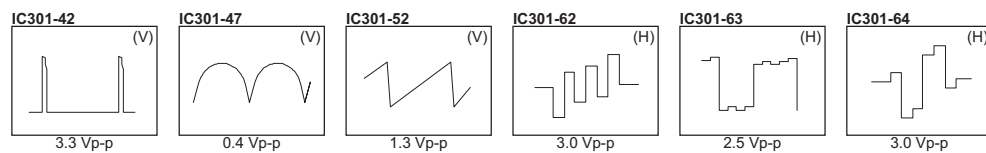
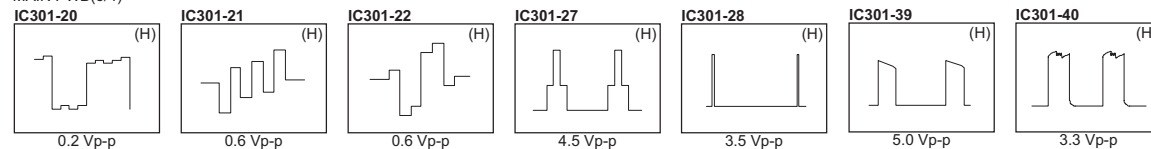
MODE PIN NO.	DC (V)
Q356	
E	2.1
C	9
B	2.6
Q381	
E	5
C	9
B	5.6
Q382	
E	5.6
C	0
B	5
Q401	
E	5
C	9
B	5.7
Q431	
E	0
C	1.9
B	0.3
Q432	
E	0
C	2.9
B	0.2
Q451	
E	1.5
C	11.9
B	1.9
Q452	
E	3.1
C	11.9
B	3.7
Q453	
E	1.7
C	1.2
B	0.1
Q454	
E	0.6
C	6.9
B	1.2

MODE PIN NO.	DC (V)
IC902	
1	4.9
2	0
3	3.2
IC941	
1	20.1
2	9.1
3	0
4	1.2
5	6.7
IC942	
1	20.1
2	5.2
3	0
4	1.2
5	6.7
IC943	
1	20
2	3.5
3	0
4	1.2
5	6.7
IC981	
1	20
2	2.6
3	0
4	1.3
5	6.7
IC991	
1	15.3
2	11.8
3	0
4	2.5
Q915	
E	0
C	6.7
B	0
Q916	
E	0
C	6.7
B	0
Q961	
E	0
C	0
B	0.6
Q962	
E	0
C	0
B	0.6
Q964	
E	0
C	6.7
B	0

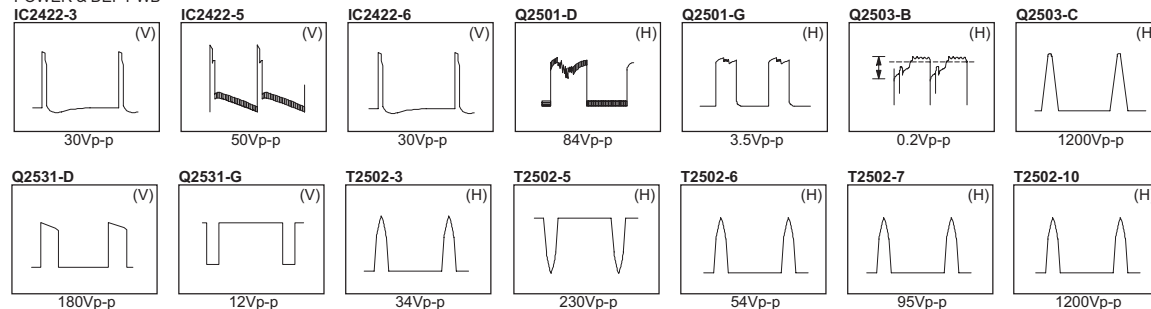
MODE PIN NO.	DC (V)
IC902	
1	4.9
2	0
3	3.2
IC941	
1	20.1
2	9.1
3	0
4	1.2
5	6.7
IC942	
1	20.1
2	5.2
3	0
4	1.2
5	6.7
IC943	
1	20
2	3.5
3	0
4	1.2
5	6.7
IC981	
1	20
2	2.6
3	0
4	

WAVEFORMS

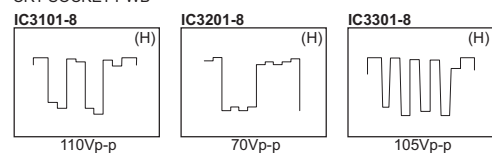
MAIN PWB(3/4)



POWER & DEF PWB



CRT SOCKET PWB





Victor Company of Japan, Limited
Display Category 12, 3-chome, Moriya-cho, Kanagawa-ku, Yokohama-city, Kanagawa-prefecture, 221-8528, Japan

(No.YA390)



Printed in Japan
VPT

PARTS LIST

CAUTION

- The parts identified by the Δ symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P.W. BOARD Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
CR	Carbon Resistor	C CAP.	Ceramic Capacitor
FR	Fusible Resistor	E CAP.	Electrolytic Capacitor
PR	Plate Resistor	M CAP.	Mylar Capacitor
VR	Variable Resistor	CH CAP.	Chip Capacitor
HV R	High Voltage Resistor	HV CAP.	High Voltage Capacitor
MF R	Metal Film Resistor	MF CAP.	Metalized Film Capacitor
MG R	Metal Glazed Resistor	MM CAP.	Metalized Mylar Capacitor
MP R	Metal Plate Resistor	MP CAP.	Metalized Polystyrol Capacitor
OM R	Metal Oxide Film Resistor	PP CAP.	Polypropylene Capacitor
CMF R	Coating Metal Film Resistor	PS CAP.	Polystyrol Capacitor
UNF R	Non-Flammable Resistor	TF CAP.	Thin Film Capacitor
CH V R	Chip Variable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH MG R	Chip Metal Glazed Resistor	TAN. CAP.	Tantalum Capacitor
COMP. R	Composition Resistor	CH C CAP.	Chip Ceramic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
		CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

RESISTORS									
F	G	J	K	M	N	R	H	Z	P
$\pm 1\%$	$\pm 2\%$	$\pm 5\%$	$\pm 10\%$	$\pm 20\%$	$\pm 30\%$	+30% -10%	+50% -10%	+80% -20%	+100% -0%

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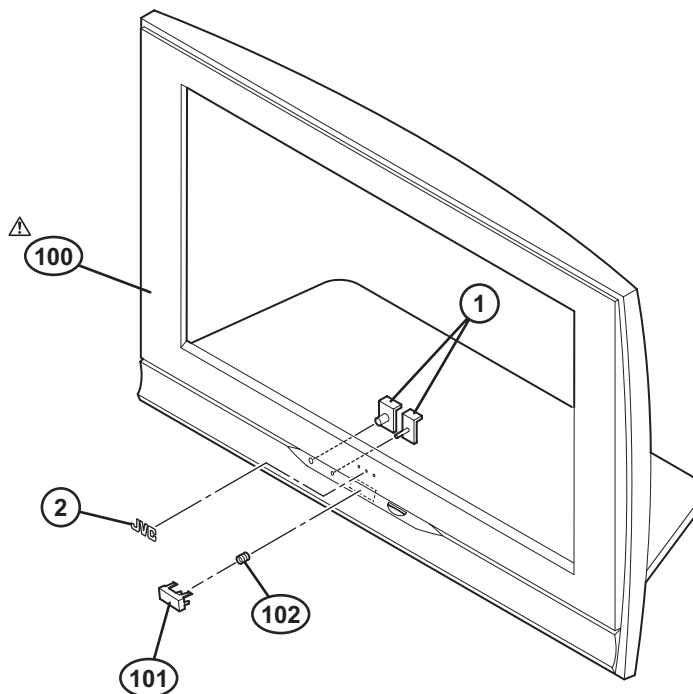
USING P.W. BOARD & REMOTE CONTROL UNIT

P.W.B ASS'Y name	P.W.B ASS'Y No.	
	AV-30W767/S	AV-30W777/S
MAIN P.W.B	SSR-1503A-M2	SSR-1502A-M2
POWER & DEF P.W.B	SSR-2501A-M2	←
CRT SOCKET P.W.B	SSR-3051A-M2	←
FRONT CONTROL P.W.B	SSR-8051A-M2	←
SIDE CONTROL P.W.B	SSR-8151A-M2	←
SD CARD P.W.B	SSR-8551A-M2	←
ATSC TUNER MODULE P.W.B	SSD-2301A-M2	←
REMOTE CONTROL UNIT	RM-C1272G-1H	←

EXPLODED VIEW PARTS LIST -1

△ Ref.No.	Part No.	Part Name	Description	Local
1	GQ30091-001A-A	LENS		
2	CM48006-010-C	JVC MARK		
△ 100	GQ10129-003A-A	FRONT CABINET ASSY	Inc.101/102	AV-30W767S
△ 100	GQ10129-002A-A	FRONT CABINET ASSY	Inc.101/102	AV-30W777S
101	GQ30090-002A-A	POWER KNOB		
102	GQ30063-001A-A	SPRING		

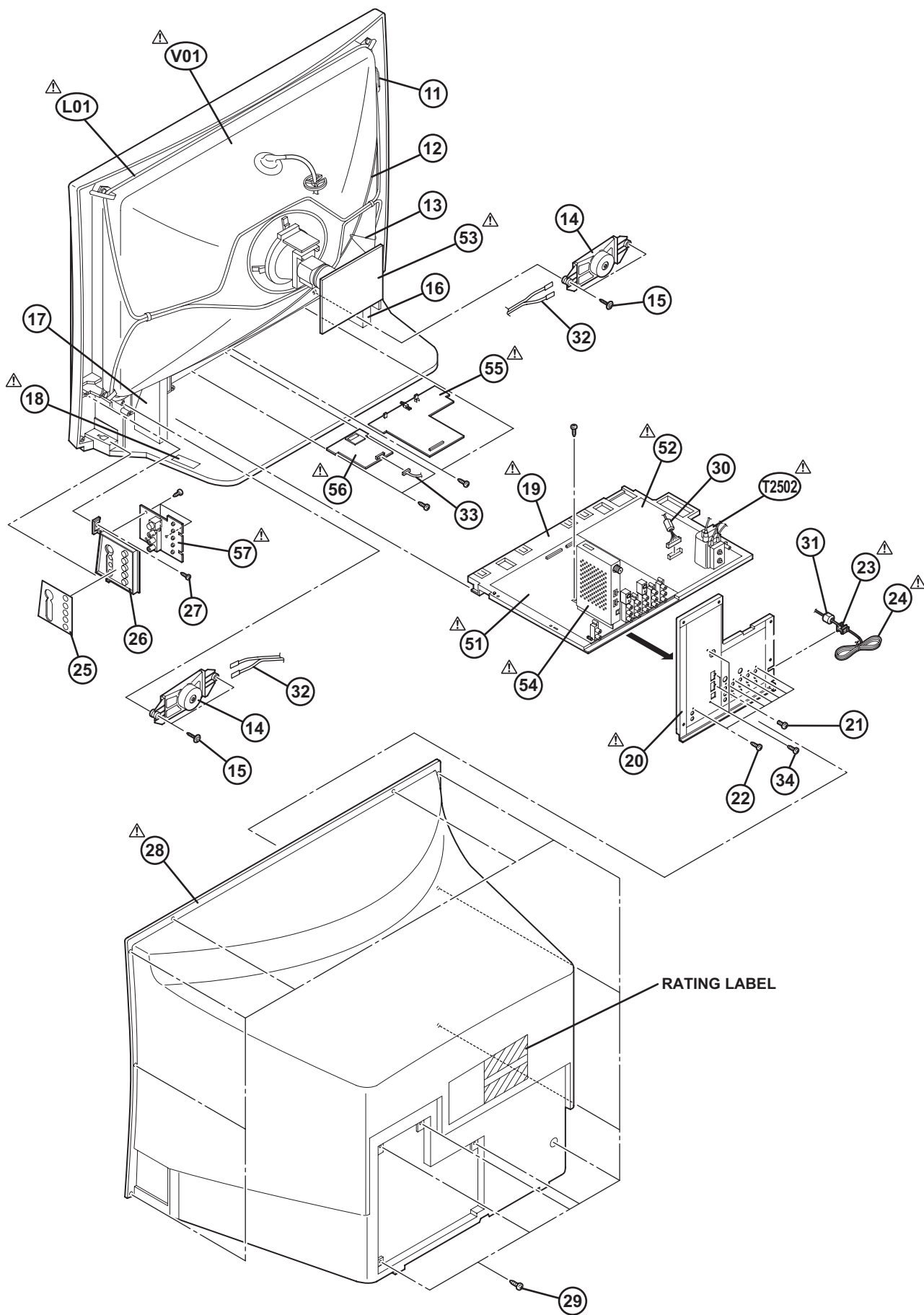
EXPLODED VIEW -1



EXPLODED VIEW PARTS LIST -2

△	Ref.No.	Part No.	Part Name	Description	Local
△	V01	W76QEN693X200	ITC	Inc.DEF YOKE/PC MAGNET/WEDGE	
△	L01	QQW0191-001	DEG COIL		
△	T2502	QQH0206-001	FB TRANSF		
	11	A48457-4-S	SPRING		
	12	WJY0008-003A-E	BRAIDED ASSY		
	13	WJY0013-002A-E	BRAIDED ASSY		
	14	QAS0232-001	SPEAKER	SP01/SP02(x2)	
	15	LC41029-002A-A	TAPPING SCREW	(x4)	
	16	GQ20009-002B-A	CRT SUPPORT	(LEFT)	
	17	GQ20009-001B-A	CRT SUPPORT	(RIGHT)	
△	18	GQ30034-001C-A	WARNING LABEL		
△	19	LC11173-002A-A	CHASSIS BASE		
△	20	LC12666-001A-A	AV TERMINAL BOARD		
	21	QYSPSPH3010ZA	SCREW	M3 x 10mm(x2)	
	22	QYSBSB3010ZA	TAP SCREW	M3 x 10mm(x6)	
△	23	LC20106-001D-A	POWER CORD CLAMP		
△	24	QMPD200-200-JC	POWER CORD(US/CA)	2m BLACK	
	25	GQ20008-001A-A	CONTROL SHEET		
	26	GQ20007-001C-A	CONTROL BASE		
	27	QYSBSF4016ZA	TAP SCREW	M4 x 16mm	
△	28	GQ10074-003B-A	REAR COVER		
	29	QYSBSFG4016ZA	TAP SCREW	M4 x 16mm(x13)	
	30	QQR0491-001	FERRITE CORE		
	31	QQR0491-001	FERRITE CORE		
	32	WJJ0317-004A-E	E-SI C WIRE C-C	MAIN CN00M - SPEAKER L/R	
	33	QJJ009-084633-E	SIN CR C-C WIRE	ATSC TUNER CN1005 - SD CARD CN100L	
	34	QYSBSG3012MA	SCREW	M3 x 12mm(x2)	
△	51	SSR-1503A-M2	MAIN PWB		AV-30W767S
△	51	SSR-1502A-M2	MAIN PWB		AV-30W777S
△	52	SSR-2501A-M2	POWER & DEF PWB		
△	53	SSR-3051A-M2	CRT SOCKET PWB		
△	54	SSD-2301A-M2	ATSC TUNER MODULE PWB		
△	55	SSR-8051A-M2	FRONT CONTROL PWB		
△	56	SSR-8551A-M2	SD CARD PWB		
△	57	SSR-8151A-M2	SIDE CONTROL PWB		

EXPLODED VIEW -2



PRINTED WIRING BOARD PARTS LIST [AV-30W767/s]

MAIN P.W. BOARD ASS'Y (SSR-1503A-M2)

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
IC251	CXA2089Q-X	IC			D302	1SS355-X	SI DIODE		
IC301	CXA2150AQ	IC			D381	UDZS5.1B-X	Z DIODE		
IC451	BA10393F-XE	IC			D452	1SS355-X	SI DIODE		
IC471	LM324D-X	IC			D453	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
IC621	NJW1143AV-W	IC			D454	1SS355-X	SI DIODE		
IC641	NJM4565M-WE	IC			D681	1SS355-X	SI DIODE		
IC651	LA42072NL	IC			D682	1SS355-X	SI DIODE		
IC701	MN102H60KPM	IC(MCU)			D683	1SS355-X	SI DIODE		
IC702	ATE08-30W767S	IC	(SERVICE)		D684	1SS355-X	SI DIODE		
IC703	S-80828CLNB-G-W	IC			D702	1SS355-X	SI DIODE		
IC704	TPS855	PHOTO CONDUCTOR			D703	1SS355-X	SI DIODE		
IC801	TB1305FG	IC			D704	1SS355-X	SI DIODE		
IC902	BA33BC0T	IC			D705	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
IC941	PQ1CG21H2FZ	IC			D706	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
IC942	PQ1CY1032Z-W	IC			D709	RB501V-40-X	SB DIODE		
IC943	PQ1CY1032Z-W	IC			D710	UDZS3.3B-X	Z DIODE		
IC981	PQ1CY1032Z-W	IC			D712	1SS355-X	SI DIODE		
IC991	PQ120RDA1SSH	IC			D714	1SS355-X	SI DIODE		
Q001	2SK1374-X	MOS FET			D785	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
Q002	2SK1374-X	MOS FET			D786	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
Q241	DTC323TK-X	DIGI TRANSISTOR			D787	UDZS8.2B-X	Z DIODE		
Q242	DTC323TK-X	DIGI TRANSISTOR			D788	UDZS8.2B-X	Z DIODE		
Q243	UN2110-X	DIGI TRANSISTOR			D789	MTZJ5.6A-T2	Z DIODE		
Q251	2SA1530A/QR/-X	TRANSISTOR			D801	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
Q252	2SA1530A/QR/-X	TRANSISTOR			D802	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
Q253	2SA1530A/QR/-X	TRANSISTOR			D803	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
Q301	2SC3928A/QR/-X	TRANSISTOR			D804	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
Q351	2SA1022/BC/-X	TRANSISTOR			D805	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
Q352	2SA1022/BC/-X	TRANSISTOR			D806	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
Q353	2SA1022/BC/-X	TRANSISTOR			D807	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
Q354	2SC3837K/NP/-X	TRANSISTOR			D808	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
Q355	2SC3837K/NP/-X	TRANSISTOR			D901	1SR35-400A-T2	SI DIODE		
Q356	2SC3837K/NP/-X	TRANSISTOR			D940	1SS355-X	SI DIODE		
Q381	2SC3928A/QR/-X	TRANSISTOR			D947	EC31QS04-X	SB DIODE		
Q382	2SA1530A/QR/-X	TRANSISTOR			D948	EC31QS04-X	SB DIODE		
Q401	2SC3928A/QR/-X	TRANSISTOR			D949	EC31QS04-X	SB DIODE		
Q431	2SC3928A/QR/-X	TRANSISTOR			D962	MA3030/H/-X	Z DIODE		
Q432	2SC3928A/QR/-X	TRANSISTOR			D964	1SS355-X	SI DIODE		
Q451	2SC3928A/QR/-X	TRANSISTOR			D965	1SS355-X	SI DIODE		
Q452	2SC3928A/QR/-X	TRANSISTOR			D967	PTZ6.8B-X	Z DIODE		
Q453	2SC3928A/QR/-X	TRANSISTOR			D968	PTZ3.9B-X	Z DIODE		
Q454	2SC3928A/QR/-X	TRANSISTOR			D969	PTZ11B-X	Z DIODE		
Q671	UN2213-X	DIGI TRANSISTOR			D981	EC31QS04-X	SB DIODE		
Q682	2SA1530A/QR/-X	TRANSISTOR			D983	PTZ3.9B-X	Z DIODE		
Q683	UN2213-X	DIGI TRANSISTOR			D984	1SS355-X	SI DIODE		
Q684	2SC3928A/QR/-X	TRANSISTOR			D991	1SS355-X	SI DIODE		
Q701	2SK1374-X	MOS FET			D994	UDZS15B-X	Z DIODE		
Q702	2SK1374-X	MOS FET			C004	NCZ1064-225X	C CAPACITOR	2.2uF	
Q703	2SA1530A/QR/-X	TRANSISTOR			C005	NCZ1064-225X	C CAPACITOR	2.2uF	
Q704	2SA1530A/QR/-X	TRANSISTOR			C008	QETN0JM-228Z	E CAPACITOR	2200uF 6.3V M	
Q705	2SA1530A/QR/-X	TRANSISTOR			C211	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
Q706	UN2213-X	DIGI TRANSISTOR			C212	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
Q707	2SC3928A/QR/-X	TRANSISTOR			C213	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
Q708	2SC3928A/QR/-X	TRANSISTOR			C214	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
Q709	2SA1530A/QR/-X	TRANSISTOR			C215	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
Q710	2SC2785/JH/-T	TRANSISTOR			C221	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
Q711	2SA1530A/QR/-X	TRANSISTOR			C222	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
Q871	2SA1530A/QR/-X	TRANSISTOR			C223	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
Q881	2SA1530A/QR/-X	TRANSISTOR			C224	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
Q891	2SA1530A/QR/-X	TRANSISTOR			C225	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
Q915	UN2213-X	DIGI TRANSISTOR			C231	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
Q916	UN2213-X	DIGI TRANSISTOR			C232	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
Q961	2SC3928A/QR/-X	TRANSISTOR			C233	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
Q962	2SC3928A/QR/-X	TRANSISTOR			C241	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
Q964	2SC3928A/QR/-X	TRANSISTOR			C242	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
Q965	UN2213-X	DIGI TRANSISTOR			C251	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
Q983	UN2213-X	DIGI TRANSISTOR			C252	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
D211	UDZS10B-X	Z DIODE			C253	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
D212	UDZS10B-X	Z DIODE			C254	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
D213	UDZS10B-X	Z DIODE			C255	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
D214	UDZS10B-X	Z DIODE			C256	QENC1EM-475Z	BP E CAPACITOR	4.7uF 25V M	
D215	UDZS10B-X	Z DIODE			C257	QENC1EM-475Z	BP E CAPACITOR	4.7uF 25V M	
D216	UDZS10B-X	Z DIODE			C258	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
D221	UDZS10B-X	Z DIODE			C259	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
D222	UDZS10B-X	Z DIODE			C260	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
D223	UDZS10B-X	Z DIODE			C301	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
D224	UDZS10B-X	Z DIODE			C302	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
D225	UDZS10B-X	Z DIODE			C303	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
D226	UDZS10B-X	Z DIODE			C304	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
D231	UDZS10B-X	Z DIODE			C305	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
D232	UDZS10B-X	Z DIODE			C306	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
D233	UDZS10B-X	Z DIODE			C307	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
D301	1SS355-X	SI DIODE			C308	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
					C309	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
					C310	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
					C311	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C312	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C802	NCB31AK-105X	C CAPACITOR	1uF 10V K
C313	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C803	NCB31AK-105X	C CAPACITOR	1uF 10V K
C314	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C804	NCB31AK-105X	C CAPACITOR	1uF 10V K
C315	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C805	NCB31AK-105X	C CAPACITOR	1uF 10V K
C316	QETN1AM-107Z	E CAPACITOR	100uF 10V M	C806	NCB31AK-105X	C CAPACITOR	1uF 10V K
C317	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C807	NCB31AK-105X	C CAPACITOR	1uF 10V K
C318	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C808	NCB31AK-105X	C CAPACITOR	1uF 10V K
C319	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C809	NDC31HJ-120X	C CAPACITOR	12pF 50V J
C320	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C810	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C321	QETN1HM-105Z	E CAPACITOR	1uF 50V M	C811	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C322	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C812	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C323	QETN1AM-107Z	E CAPACITOR	100uF 10V M	C813	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C324	NCZ1064-225X	C CAPACITOR	2.2uF	C814	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C375	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C815	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C382	QETN1CM-476Z	E CAPACITOR	47uF 16V M	C816	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C401	QETN1HM-107Z	E CAPACITOR	100uF 50V M	C817	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C402	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C818	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C403	NCB31AK-105X	C CAPACITOR	1uF 10V K	C819	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C404	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C820	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C405	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C821	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C406	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C822	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C407	QFP31HJ-104	PP CAPACITOR	0.1uF 50V J	C871	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C408	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C907	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C409	NCB31AK-684X	C CAPACITOR	0.68uF 10V K	C908	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C451	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C941	QETN1VM-477Z	E CAPACITOR	470uF 35V M
C452	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C942	QE2056-128	E CAPACITOR	1200uF 10V M
C453	NCB31HK-152X	C CAPACITOR	1500pF 50V K	C943	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
C457	QFN31HJ-472Z	M CAPACITOR	4700pF 50V J	C944	QETN1VM-108Z	E CAPACITOR	1000uF 35V M
C458	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C945	QE2056-128	E CAPACITOR	1200uF 10V M
C470	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C946	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
C473	NCB31EK-393X	C CAPACITOR	0.039uF 25V K	C947	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C475	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C948	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C476	QETN1CM-107Z	E CAPACITOR	100uF 16V M	C949	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M
C477	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C950	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M
C478	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C951	QETN1VM-477Z	E CAPACITOR	470uF 35V M
C479	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C952	QE2056-128	E CAPACITOR	1200uF 10V M
C481	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C953	QETN0JM-228Z	E CAPACITOR	2200uF 6.3V M
C482	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C955	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
C621	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C960	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C623	NCB31HK-102X	C CAPACITOR	1000pF 50V K	C961	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C624	NCB31CK-334X	C CAPACITOR	0.33uF 16V K	C972	QETN1VM-477Z	E CAPACITOR	470uF 35V M
C625	NCB31HK-822X	C CAPACITOR	8200pF 50V K	C976	QE2056-128	E CAPACITOR	1200uF 10V M
C627	NCB31CK-105X	C CAPACITOR	1uF 16V K	C982	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M
C628	NCB31CK-105X	C CAPACITOR	1uF 16V K	C984	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
C629	NCB31CK-105X	C CAPACITOR	1uF 16V K	C987	QETN1AM-108Z	E CAPACITOR	1000uF 10V M
C630	NCB31CK-105X	C CAPACITOR	1uF 16V K	C991	QETN1EM-107Z	E CAPACITOR	100uF 25V M
C631	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C992	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C633	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R001	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C634	NCB31CK-334X	C CAPACITOR	0.33uF 16V K	R002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C635	QETN1CM-227Z	E CAPACITOR	220uF 16V M	R003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C636	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C637	NCB31CK-105X	C CAPACITOR	1uF 16V K	R005	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C638	NCB31CK-105X	C CAPACITOR	1uF 16V K	R211	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C639	NCZ1064-225X	C CAPACITOR	2.2uF	R212	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C641	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	R213	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C642	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	R214	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
C643	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R215	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
C651	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	R221	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C652	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	R222	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C653	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R223	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C654	QETN1EM-477Z	E CAPACITOR	470uF 25V M	R224	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
C655	QETM1EM-108	E CAPACITOR	1000uF 25V M	R225	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
C656	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R231	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C661	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	R232	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
C662	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	R233	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
C663	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R241	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C666	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R242	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
C671	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R243	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C683	QETN1EM-107Z	E CAPACITOR	100uF 25V M	R244	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
C684	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R245	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
C685	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R246	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
C701	NCZ1064-225X	C CAPACITOR	2.2uF	R247	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C702	NCZ1064-225X	C CAPACITOR	2.2uF	R251	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C704	NDC31HJ-150X	C CAPACITOR	15pF 50V J	R252	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C705	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R253	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C707	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R254	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C712	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R255	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C720	NCB31CK-105X	C CAPACITOR	1uF 16V K	R256	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C721	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R257	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C722	NCB31AK-105X	C CAPACITOR	1uF 10V K	R258	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C723	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R259	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C724	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R260	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C725	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R261	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C726	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R262	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C729	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R263	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C731	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R264	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C732	QETN1AM-227Z	E CAPACITOR	220uF 10V M	R265	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C733	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R266	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C734	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R267	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C801	NCB31AK-105X	C CAPACITOR	1uF 10V K				

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R268	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R479	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R269	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R480	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R270	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R481	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R271	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R482	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R272	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R483	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R273	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R484	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R274	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R485	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R275	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R486	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R276	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R487	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R277	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R488	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R278	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R489	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R279	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R490	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R280	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R493	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R281	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R494	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R301	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R495	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R302	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R496	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R303	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R497	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R305	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R498	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R307	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R604	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R309	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R614	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R311	NRSA63J-335X	MG RESISTOR	3.3MΩ 1/16W J	R621	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R312	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R624	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R313	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R625	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R314	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R631	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R315	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R637	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R317	NRSA63D-472X	MG RESISTOR	4.7kΩ 1/16W D	R638	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R319	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R639	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R320	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R640	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R321	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R641	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R322	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R642	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R351	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	R643	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R352	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R645	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R353	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	R649	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R354	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	R651	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R355	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R652	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R356	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	R653	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J
R357	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	R654	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J
R358	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R661	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R359	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	R662	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R363	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R663	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J
R364	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R664	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J
R365	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R671	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R366	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R672	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R367	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R683	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R368	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R685	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R381	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R686	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R383	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R687	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R384	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R688	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R386	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R689	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R387	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R690	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R401	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R691	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R403	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	R701	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R404	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	R702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R405	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R703	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R406	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R704	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R407	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	R705	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R408	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R706	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R409	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R707	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R411	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R708	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R412	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R709	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R413	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R710	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R431	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R711	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R432	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R712	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R433	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R713	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R434	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R714	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R435	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R715	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R436	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R716	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R451	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R717	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R452	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R718	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R454	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R719	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R455	NRSA63D-473X	MG RESISTOR	47kΩ 1/16W D	R720	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R456	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	R721	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R457	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R722	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R458	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R723	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R459	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	R724	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R460	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R725	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R461	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R726	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R462	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R727	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R463	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	R728	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R467	NRSA63J-394X	MG RESISTOR	390kΩ 1/16W J	R732	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R468	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J	R733	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R470	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	R734	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R471	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R735	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R472	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	R736	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R473	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R737	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R474	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R738	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R475	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R739	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R476	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R740	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R477	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R741	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R478	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R743	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
R744	NRSA63J-154X	MG RESISTOR	150kΩ	1/16W J	R949	NRSA63D-122X	MG RESISTOR	1.2kΩ	1/16W D
R745	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R950	NRSA63D-822X	MG RESISTOR	8.2kΩ	1/16W D
R746	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R951	NRSA63J-224X	MG RESISTOR	220kΩ	1/16W J
R747	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	R952	NRSA63J-331X	MG RESISTOR	330Ω	1/16W J
R748	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	R955	NRSA63D-682X	MG RESISTOR	6.8kΩ	1/16W D
R749	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	R958	NRSA63D-302X	MG RESISTOR	3kΩ	1/16W D
R750	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	R959	NRSA63D-182X	MG RESISTOR	1.8kΩ	1/16W D
R751	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R961	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
R752	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R962	NRSA63J-562X	MG RESISTOR	5.6kΩ	1/16W J
R753	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	R963	NRSA63J-182X	MG RESISTOR	1.8kΩ	1/16W J
R754	NRSA63J-105X	MG RESISTOR	1MΩ	1/16W J	R964	NRSA63J-223X	MG RESISTOR	22kΩ	1/16W J
R755	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	R965	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
R756	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	R966	NRSA63J-822X	MG RESISTOR	8.2kΩ	1/16W J
R757	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J	R967	NRSA63J-122X	MG RESISTOR	1.2kΩ	1/16W J
R759	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J	R968	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
R760	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J	R969	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
R762	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J	R983	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
R763	NRSA63J-104X	MG RESISTOR	100kΩ	1/16W J	R985	NRSA63D-302X	MG RESISTOR	3kΩ	1/16W D
R764	NRSA63J-331X	MG RESISTOR	330Ω	1/16W J	R987	NRSA63D-302X	MG RESISTOR	3kΩ	1/16W D
R765	NRSA63J-104X	MG RESISTOR	100kΩ	1/16W J	R988	NRSA63D-153X	MG RESISTOR	15kΩ	1/16W D
R766	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R989	NRSA63D-123X	MG RESISTOR	12kΩ	1/16W D
R767	NRSA63J-104X	MG RESISTOR	100kΩ	1/16W J	R991	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J
R769	NRSA63J-104X	MG RESISTOR	100kΩ	1/16W J	R992	QRT039J-R68	MF RESISTOR	0.68Ω	3W J
R770	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	R993	NRSA63J-182X	MG RESISTOR	1.8kΩ	1/16W J
R772	NRSA63J-333X	MG RESISTOR	33kΩ	1/16W J	L001	QRN143J-0R0X	C RESISTOR	0Ω	1/4W J
R773	NRSA63J-473X	MG RESISTOR	47kΩ	1/16W J	L003	QRN143J-0R0X	C RESISTOR	0Ω	1/4W J
R774	NRSA63J-682X	MG RESISTOR	6.8kΩ	1/16W J	L701	NQL092K-R10X	COIL	0.1uH	K
R775	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	L801	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J
R776	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	L802	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J
R777	NRSA63J-333X	MG RESISTOR	33kΩ	1/16W J	L871	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J
R778	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	L941	QQR1401-001	CHOKO COIL		
R780	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	L942	QQR1401-001	CHOKO COIL		
R781	NRSA63J-273X	MG RESISTOR	27kΩ	1/16W J	L943	QQL26AK-330Z	CHOKO COIL	33uH	K
R782	NRSA63J-123X	MG RESISTOR	12kΩ	1/16W J	L944	QQL26AK-330Z	CHOKO COIL	33uH	K
R783	NRSA63J-123X	MG RESISTOR	12kΩ	1/16W J	L945	QQL26AK-100Z	CHOKO COIL	10uH	K
R784	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	L946	QQL26AK-220Z	CHOKO COIL	22uH	K
R785	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	L947	QQR1401-001	CHOKO COIL		
R788	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	L950	QQL26AK-470Z	CHOKO COIL	47uH	K
R794	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	L951	QQL26AK-470Z	CHOKO COIL	47uH	K
R795	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	L952	QQL26AK-470Z	CHOKO COIL	47uH	K
R796	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	L956	QQL26AK-100Z	CHOKO COIL	10uH	K
R797	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	L983	QQL26AK-470Z	CHOKO COIL	47uH	K
R798	NRSA63J-563X	MG RESISTOR	56kΩ	1/16W J	L984	QQR1401-001	CHOKO COIL		
R799	NRSA63J-563X	MG RESISTOR	56kΩ	1/16W J	L985	QQL26AK-100Z	CHOKO COIL	10uH	K
R801	NRSA63J-152X	MG RESISTOR	1.5kΩ	1/16W J	CN001	QGB1506L1-16	CONNECTOR	B-B	(1-16)
R802	NRSA63J-152X	MG RESISTOR	1.5kΩ	1/16W J	CN002	QGB1506L1-16	CONNECTOR	B-B	(1-16)
R803	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	CN003	QGB1506L1-16	CONNECTOR	B-B	(1-16)
R804	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	CN004	QGB1509J1-55	CONNECTOR	B-B	(1-55)
R805	NRS12BJ-151W	MG RESISTOR	150Ω	1/2W J	GN1	NNZ0159-001X	EARTH TERMINAL		
R806	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	GN2	NNZ0159-001X	EARTH TERMINAL		
R808	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	GN3	NNZ0159-001X	EARTH TERMINAL		
R809	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	J201	QNZ0454-001	AV JACK	INPUT-3(S/V/L/R)	
R810	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	J202	QNZ0454-001	AV JACK	INPUT-1(S/V/L/R)	
R811	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	J203	QNN0349-001	PIN JACK	INPUT-2(V/L/R)	
R812	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	J241	QNN0348-001	PIN JACK	AUDIO OUT	
R813	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	J801	QNN0349-002	PIN JACK	INPUT-1(COMPONENT)	
R851	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	J802	QNN0349-002	PIN JACK	INPUT-2(COMPONENT)	
R852	NRSA63J-750X	MG RESISTOR	75Ω	1/16W J	K001	NQR0325-003X	FERRITE BEADS		
R853	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	K004	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J
R854	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	K701	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J
R855	NRSA63J-750X	MG RESISTOR	75Ω	1/16W J	K702	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J
R856	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	K703	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J
R857	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	K943	QRN143J-0R0X	C RESISTOR	0Ω	1/4W J
R858	NRSA63J-750X	MG RESISTOR	75Ω	1/16W J	K944	QRN143J-0R0X	C RESISTOR	0Ω	1/4W J
R859	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	LC871	QQR1199-002	EMI FILTER		
R861	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	LC881	QQR1199-002	EMI FILTER		
R862	NRSA63J-750X	MG RESISTOR	75Ω	1/16W J	LC891	QQR1199-002	EMI FILTER		
R863	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	SL701	NAX0613-001X	C RESONATOR	16.000MHz	
R864	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	X401	QAX0900-001	C RESONATOR	2.696MHz	
R865	NRSA63J-750X	MG RESISTOR	75Ω	1/16W J	X801	NAX0787-001X	CRISTAL	3.579540MHz	
R866	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J					
R867	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J					
R868	NRSA63J-750X	MG RESISTOR	75Ω	1/16W J					
R869	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J					
R871	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J					
R872	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J					
R873	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J					
R881	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J					
R882	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J					
R883	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J					
R891	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J					
R892	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J					
R893	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J					
R901	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J					
R929	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J					
R930	NRSA63D-123X	MG RESISTOR	12kΩ	1/16W D					
R932	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J					
R942	NRSA63D-122X	MG RESISTOR	1.2kΩ	1/16W D					
R945	NRSA63D-102X	MG RESISTOR	1kΩ	1/16W D					
R946	NRSA63D-333X	MG RESISTOR	33kΩ	1/16W D					
POWER & DEF P.W. BOARD ASS'Y (SSR-2501A-M2)									
△Ref No.	Part No.	Part Name	Description	Local					
IC2422	LA78041	IC							
IC2911	STR-X6737M-F2	IC							
IC2921	SE140N	IC							
IC2922	S7805PI	IC							
Q2401	KTC3199/YG/-T	TRANSISTOR							
Q2402	KTC3199/YG/-T	TRANSISTOR							
Q2501	BSN304-T	MOS FET							
Q2503	2SC5905-RL	POW TRANSISTOR							
Q2521	KTC3199/YG/-T	TRANSISTOR							

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
Q2531	RDN080N25	POWER MOS FET		C2525	QFN31HJ-682Z	M CAPACITOR	6800pF 50V J
Q2532	2SC1959/Y/-T	TRANSISTOR		C2526	QETN1CM-107Z	E CAPACITOR	100uF 16V M
Q2533	2SA562TM/Y/-T	TRANSISTOR		C2527	QFV21HJ-104Z	MF CAPACITOR	0.1uF 50V J
Q2911	KTC3199/YG/-T	TRANSISTOR		C2533	QCZ0404-561	C CAPACITOR	560pF
Q2927	2SA965/OY/-T	TRANSISTOR		C2534	QFN32DK-222Z	M CAPACITOR	2200pF 200V K
Q2928	KTC3199/YG/-T	TRANSISTOR		C2591	QEZ0203-107	E CAPACITOR	100uF 160V M
Q2950	KTC3199/YG/-T	TRANSISTOR		C2801	QETM1VM-228	E CAPACITOR	2200uF 35V M
Q2952	KTC3199/YG/-T	TRANSISTOR		C2803	QETM2EM-336	E CAPACITOR	33uF 250V M
Q2953	KTC3199/YG/-T	TRANSISTOR		C2811	QETN1JM-107Z	E CAPACITOR	100uF 63V M
Q2954	KTC3199/YG/-T	TRANSISTOR		C2901	QEZ0572-687	E CAPACITOR	680uF 200V M
Q2955	KTC3199/YG/-T	TRANSISTOR		△C2902	QEZ0572-687	E CAPACITOR	680uF 200V M
Q2970	KTC3199/YG/-T	TRANSISTOR		C2903	QCS32HJ-221Z	C CAPACITOR	220pF 500V J
Q2971	2SA1208/ST/Z1-T	TRANSISTOR		△C2904	QCZ9054-102	C CAPACITOR	1000pF AC250V Z
Q2991	2SC3311A/QR/-T	TRANSISTOR		△C2905	QCZ9054-102	C CAPACITOR	1000pF AC250V Z
				△C2906	QCZ9054-102	C CAPACITOR	1000pF AC250V Z
D2201	FR105GT-T3	SI DIODE		△C2908	QCZ9054-102	C CAPACITOR	1000pF AC250V Z
D2404	MTZJ6.8A-T2	Z DIODE		C2912	QCZ0340-332	C CAPACITOR	3300pF 2kV K
D2405	1SS133-T2	SI DIODE		C2913	QETN1HM-105Z	E CAPACITOR	1uF 50V M
D2406	MTZJ3.3A-T2	Z DIODE		C2914	QETN1HM-226Z	E CAPACITOR	22uF 50V M
D2408	1SS133-T2	SI DIODE		C2916	QCS31HJ-331Z	C CAPACITOR	330pF 50V J
D2409	1N4003SG-T2	SI DIODE		C2917	QFN31HJ-332Z	M CAPACITOR	3300pF 50V J
D2410	MTZJ75-T2	Z DIODE		C2918	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J
D2502	1SS133-T2	SI DIODE		C2919	QFP32GJ-103	PP CAPACITOR	0.01uF 400V J
D2504	RG2A-LFC4	SI DIODE		C2920	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J
D2506	FMV-3FU-F1	SI DIODE		C2927	QCZ0340-152	C CAPACITOR	1500pF 2kV K
D2521	MTZJ12C-T2	Z DIODE		C2930	QCS31HJ-181Z	C CAPACITOR	180pF 50V J
D2522	1SS244-T2	SI DIODE		C2931	QEZ0203-227	E CAPACITOR	220uF 160V M
D2523	MTZJ4.7B-T2	Z DIODE		C2932	QETM1EM-228	E CAPACITOR	2200uF 25V M
D2531	FR105GT-T3	SI DIODE		C2934	QETM1VM-228	E CAPACITOR	2200uF 35V M
D2561	MA4068N/Z1/-T2	Z DIODE		C2935	QETN1VM-108Z	E CAPACITOR	1000uF 35V M
D2801	FR105GT-T3	SI DIODE		C2938	QETN1VM-108Z	E CAPACITOR	1000uF 35V M
D2803	FR105GT-T3	SI DIODE		C2948	QETN1EM-227Z	E CAPACITOR	220uF 25V M
D2812	1SR124-400A-T2	SI DIODE		C2949	QEHR1HM-105Z	E CAPACITOR	1uF 50V M
△D2901	GBJ6JU	BRIDGE DIODE		C2951	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
△D2911	FR105GT-T3	SI DIODE		C2954	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
D2912	FR105GT-T3	SI DIODE		C2959	QETN1EM-475Z	E CAPACITOR	4.7uF 25V M
D2913	1SS133-T2	SI DIODE		C2971	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D2914	1SS133-T2	SI DIODE		C2972	QETN1HM-476Z	E CAPACITOR	47uF 50V M
D2915	SARS01-T2	FR DIODE		C2973	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D2917	MTZJ33B-T2	Z DIODE		△C2982	QFZ9072-104	MM CAPACITOR	0.1uF AC250V K
D2920	1SS133-T2	SI DIODE		△C2983	QFZ9072-104	MM CAPACITOR	0.1uF AC250V K
D2921	MTZJ5.6B-T2	Z DIODE		△C2985	QFZ9072-104	MM CAPACITOR	0.1uF AC250V K
D2931	RU4AM-F1	SI DIODE		C2991	QETN1AM-107Z	E CAPACITOR	100uF 10V M
D2932	FMX-G12S	SI DIODE		C2992	QETN1EM-476Z	E CAPACITOR	47uF 25V M
D2935	RU3YX-LFC4	SI DIODE		△C2993	QCZ9078-222	C CAPACITOR	2200pF AC250V M
D2936	FMX-G12S	SI DIODE		△C2994	QCZ9078-222	C CAPACITOR	2200pF AC250V M
D2941	MTZJ33A-T2	Z DIODE		△C2995	QCZ9078-222	C CAPACITOR	2200pF AC250V M
D2943	MTZJ12A-T2	Z DIODE		△C2997	QCZ9078-222	C CAPACITOR	2200pF AC250V M
D2956	1SS133-T2	SI DIODE		△C2998	QCZ9078-222	C CAPACITOR	2200pF AC250V M
D2957	1SS133-T2	SI DIODE		△C2999	QCZ9078-222	C CAPACITOR	2200pF AC250V M
D2958	MTZJ6.8B-T2	Z DIODE					
D2959	1SS133-T2	SI DIODE		R2201	QRA14CF-4703Y	CMF RESISTOR	470kΩ 1/4W F
D2970	MTZJ3.3A-T2	Z DIODE		R2202	QRA14CF-4703Y	CMF RESISTOR	470kΩ 1/4W F
D2971	RU3YX-LFC4	SI DIODE		R2203	QRA14CF-3303Y	CMF RESISTOR	330kΩ 1/4W F
D2972	MTZJ15B-T2	Z DIODE		R2204	QRA14CF-3303Y	CMF RESISTOR	330kΩ 1/4W F
D2973	1SS133-T2	SI DIODE		R2401	QRE141J-822Y	C RESISTOR	8.2kΩ 1/4W J
D2978	AU01Z-T2	FR DIODE		R2403	QRE141J-683Y	C RESISTOR	68kΩ 1/4W J
D2989	MTZJ6.8B-T2	Z DIODE		R2404	QRE141J-183Y	C RESISTOR	18kΩ 1/4W J
D2990	MTZJ15B-T2	Z DIODE		R2406	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
D2991	1SS133-T2	SI DIODE		R2407	QRX01GJ-R82	MF RESISTOR	0.82Ω 1W J
D2992	MTZJ5.1B-T2	Z DIODE		R2409	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
D2993	1SS133-T2	SI DIODE		R2410	QRE141J-681Y	C RESISTOR	680Ω 1/4W J
D2994	1SS133-T2	SI DIODE		R2411	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J
				R2412	QRE141J-822Y	C RESISTOR	8.2kΩ 1/4W J
C2201	QFV21HJ-334Z	MF CAPACITOR	0.33uF 50V J	R2413	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J
C2402	QFN32AK-102Z	M CAPACITOR	1000pF 100V K	R2414	QRL029J-820	OMF RESISTOR	82Ω 2W J
C2403	QETN1VM-107Z	E CAPACITOR	100uF 35V M	R2415	QRE141J-154Y	C RESISTOR	150kΩ 1/4W J
C2404	QETN1VM-477Z	E CAPACITOR	470uF 35V M	R2416	QRE141J-101Y	C RESISTOR	100Ω 1/4W J
C2405	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	R2418	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J
C2406	QETM1EM-228	E CAPACITOR	2200uF 25V M	R2420	QRE141J-101Y	C RESISTOR	100Ω 1/4W J
C2407	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R2421	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J
C2408	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R2422	QRE141J-0R0Y	C RESISTOR	0Ω 1/4W J
C2409	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R2429	QRE141J-272Y	C RESISTOR	2.7kΩ 1/4W J
C2411	QCB31HK-222Z	C CAPACITOR	2200pF 50V K	R2436	QRZ0230-391X	UNF C RESISTOR	390Ω 1/4W J
C2412	QFLC1HJ-183Z	M CAPACITOR	0.018uF 50V J	R2502	QRE141J-471Y	C RESISTOR	470Ω 1/4W J
C2420	QCS32HJ-330Z	C CAPACITOR	33pF 500V J	R2503	QRE121J-123Y	C RESISTOR	12kΩ 1/2W J
C2502	QCB32HK-331Z	C CAPACITOR	330pF 500V K	R2504	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J
C2503	QFN32DK-103	M CAPACITOR	0.01uF 200V K	R2505	QRL039J-222	OMF RESISTOR	2.2kΩ 3W J
C2506	QFZ0122-622	MPP CAPACITOR	6200pF 1.8kV H	R2506	QRL039J-332	OMF RESISTOR	3.3kΩ 3W J
C2507	QFZ0223-622	MPP CAPACITOR	6200pF	R2509	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
C2508	QFP32JJ-223	PP CAPACITOR	0.022uF 630V J	R2512	QRL029J-821	OMF RESISTOR	820Ω 2W J
C2509	QFZ0197-104	MPP CAPACITOR	0.1uF 250V J	R2521	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J
C2510	QFZ0197-154	MPP CAPACITOR	0.15uF 250V J	R2523	QRE141J-822Y	C RESISTOR	8.2kΩ 1/4W J
C2512	QFZ0128-204	MPP CAPACITOR	0.2uF DC400V H	R2524	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J
C2513	QEZ0470-475	BP E CAPACITOR	4.7uF 50V M	R2525	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J
C2514	QCZ0404-561	C CAPACITOR	560pF	R2526	QRE141J-470Y	C RESISTOR	47Ω 1/4W J
C2515	QFV21HJ-224Z	MF CAPACITOR	0.22uF 50V J	R2531	QRL029J-182	OMF RESISTOR	1.8kΩ 2W J
C2521	QCZ0340-331	C CAPACITOR	330pF 2kV K	R2533	QRL029J-820	OMF RESISTOR	82Ω 2W J
C2523	QFN32AJ-682Z	M CAPACITOR	6800pF 100V J	R2534	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J
C2524	QCS32HJ-470Z	C CAPACITOR	47pF 500V J	R2535	QRE141J-470Y	C RESISTOR	47Ω 1/4W J

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
R2536	QRE141J-470Y	C RESISTOR	47Ω 1/4W J		K2930	QQR0621-002Z	FERRITE BEADS		
R2541	QRL039J-472	OMF RESISTOR	4.7kΩ 3W J		K2931	QQR0621-002Z	FERRITE BEADS		
△R2561	QRA14CF-7871Y	CMF RESISTOR	7.87kΩ 1/4W F		K2932	QQR0582-001Z	FERRITE BEADS		
△R2562	QRA14CF-1501Y	CMF RESISTOR	1.5kΩ 1/4W F		K2938	QQR0621-002Z	FERRITE BEADS		
△R2565	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J		△LF2902	QQR1407-001	LINE FILTER		
R2591	QRZ0227-3R3	UNF VWW RESISTOR	3.3Ω 10 K		△LF2903	QQR1407-001	LINE FILTER		
R2901	QRF154K-R51	UNF VWW RESISTOR	0.51Ω 15W K		△PC2921	PS2581AL1/QW/	PHOTO COUPLER		
R2903	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J		△PC2922	PS2581AL1/QW/	PHOTO COUPLER		
△R2904	QRZ9041-275	C RESISTOR	2.7MΩ 1/2W K		△RY2931	QSK0083-001	RELAY		
R2905	QRE121J-104Y	C RESISTOR	100kΩ 1/2W J		△RY2991	QSK0083-001	RELAY		
R2906	QRE121J-104Y	C RESISTOR	100kΩ 1/2W J		S2401	QSW1142-001	LEVER SWITCH	V.CENTER	
R2907	QRE141J-0R0Y	C RESISTOR	0Ω 1/4W J		△TH2901	QAD0129-3R0	POSISTOR	3Ω	
R2908	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J		△VA2901	QAF0060-621	VARISTOR	620V	
R2909	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J						
R2910	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J						
R2911	QRL029J-393	OMF RESISTOR	39kΩ 2W J						
R2912	QRT029J-R15	MF RESISTOR	0.15Ω 2W J						
R2913	QRT029J-R18	MF RESISTOR	0.18Ω 2W J						
△R2915	QRZ9017-470	FUSI RESISTOR	47Ω 1/4W J						
R2917	QRK126J-102X	UNF C RESISTOR	1kΩ 1/2W J						
R2918	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J						
R2920	QRE121J-684Y	C RESISTOR	680kΩ 1/2W J						
R2922	QRK126J-101X	UNF C RESISTOR	100Ω 1/2W J						
R2923	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J						
R2925	QRG01GJ-470	OMF RESISTOR	47Ω 1W J						
R2930	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J						
R2931	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J						
R2935	QRE121J-103Y	C RESISTOR	10kΩ 1/2W J						
R2936	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J						
R2937	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J						
R2938	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J						
R2941	QRL039J-183	OMF RESISTOR	18kΩ 3W J						
R2944	QRE121J-182Y	C RESISTOR	1.8kΩ 1/2W J						
R2948	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J						
R2959	QRE121J-121Y	C RESISTOR	120Ω 1/2W J						
R2961	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J						
R2962	QRE141J-153Y	C RESISTOR	15kΩ 1/4W J						
R2963	QRE121J-103Y	C RESISTOR	10kΩ 1/2W J						
R2964	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J						
R2965	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J						
R2967	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J						
R2968	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J						
R2969	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J						
R2971	QRE141J-182Y	C RESISTOR	1.8kΩ 1/4W J						
R2973	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J						
R2974	QRE141J-153Y	C RESISTOR	15kΩ 1/4W J						
R2975	QRE141J-153Y	C RESISTOR	15kΩ 1/4W J						
R2976	QRE141J-393Y	C RESISTOR	39kΩ 1/4W J						
R2977	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J						
R2978	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J						
R2979	QRA14CF-1201Y	CMF RESISTOR	1.2kΩ 1/4W F						
R2980	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J						
R2981	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J						
R2982	QRG01GJ-220	OMF RESISTOR	22Ω 1W J						
R2991	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J						
R2992	QRE141J-272Y	C RESISTOR	2.7kΩ 1/4W J						
R2993	QRE141J-122Y	C RESISTOR	1.2kΩ 1/4W J						
R2994	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J						
R2995	QRE121J-181Y	C RESISTOR	180Ω 1/2W J						
L2501	QQLZ025-180	CHOKE COIL	18uH						
L2502	QQR1408-001	CHOKE COIL							
L2504	QQR1191-002	LINEARITY COIL							
L2531	QQLZ036-222	COIL	2.2mH J						
L2801	QQLZ026-540	COIL	54uH						
L2931	QQL26AK-470Z	CHOKE COIL	47uH K						
L2932	QQL26AM-1R5Z	COIL	1.5uH M						
L2934	QQLZ026-500	COIL	50uH						
L2936	QQL26AK-220Z	CHOKE COIL	22uH K						
T2501	QQR1111-001	DRIVE TRANSF							
△T2921	QQS0389-001	SW TRANSF							
CN1PW	WJM0446-001B-E	E-SI C WIRE C-F							
CN2001	QGB1506M1-16	CONNECTOR	B-B (1-16)						
CN2002	QGB1506M1-16	CONNECTOR	B-B (1-16)						
CN2003	QGB1506M1-16	CONNECTOR	B-B (1-16)						
△CN20PW	QMPD200-200-JC	POWER CORD(US/CA)	2m BLACK						
△CP2934	ICP-N70-T	IC PROTECTOR	2.5A						
△CP2935	ICP-N70-T	IC PROTECTOR	2.5A						
△CP2936	ICP-N70-T	IC PROTECTOR	2.5A						
△CP2941	ICP-N70-T	IC PROTECTOR	2.5A						
△CP2942	ICP-N70-T	IC PROTECTOR	2.5A						
△F2901	QMF61U1-7R0-S	FUSE	7A AC125V						
△F2905	QMFZ049-5R0Z-E	FUSE	5A 125V						
△FR2801	QRZ9011-1R0	FUSI RESISTOR	1Ω 1/2W J						
△FR2803	QRZ9009-1R5	FUSI RESISTOR	1.5Ω 1/2W J						
△FR2811	QRZ9011-4R7	FUSI RESISTOR	4.7Ω 1/2W J						
K2501	QQR0621-002Z	FERRITE BEADS			R3009	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K	
K2512	QQR0621-002Z	FERRITE BEADS			R3010	NRSA63D-682X	MG RESISTOR	6.8kΩ 1/16W D	
K2914	QQR0582-001Z	FERRITE BEADS			R3011	NRSA63D-562X	MG RESISTOR	5.6kΩ 1/16W D	

CRT SOCKET P.W. BOARD ASS'Y (SSR-3051A-M2)

△Ref No.	Part No.	Part Name	Description	Local
IC3101	TDA6111Q/N4	IC		
IC3201	TDA6111Q/N4	IC		
IC3301	TDA6111Q/N4	IC		
Q3051	2SC3928A/QR/-X	TRANSISTOR		
Q3052	2SC3928A/QR/-X	TRANSISTOR		
Q3701	2SC1906E-T	TRANSISTOR		
Q3702	2SA1005/MLK/-T	TRANSISTOR		
Q3703	2SC1959/Y/-T	TRANSISTOR		
Q3704	2SA562TM/Y/-T	TRANSISTOR		
Q3705	2SJ407	POWER MOS FET		
Q3706	2SK2381	POWER MOS FET		
D3009	RM2C-LFA1	SI DIODE		
D3101	1SS244-T2	SI DIODE		
D3103	UDZS15B-X	Z DIODE		
D3201	1SS244-T2	SI DIODE		
D3203	UDZS15B-X	Z DIODE		
D3301	1SS244-T2	SI DIODE		
D3303	MA8150/M/-X	Z DIODE		
D3701	1SS355-X	SI DIODE		
D3702	FR105GT-T3	SI DIODE		
D3703	FR105GT-T3	SI DIODE		
C3002	QETN2EM-106Z	E CAPACITOR	10uF 250V M	
C3004	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
△C3009	QFZ9027-103	MM CAPACITOR	0.01uF 1000V K	
C3011	QETN2EM-106Z	E CAPACITOR	10uF 250V M	
C3101	QEH1H1M-106Z	E CAPACITOR	10uF 50V M	
C3102	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3103	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C3104	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3106	QFKC2EK-104Z	MM CAPACITOR	0.1uF 250V K	
C3107	NDC31HJ-561X	C CAPACITOR	560pF 50V J	
C3201	QEH1H1M-106Z	E CAPACITOR	10uF 50V M	
C3202	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3203	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C3204	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3205	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C3206	QFKC2EK-104Z	MM CAPACITOR	0.1uF 250V K	
C3207	NDC31HJ-561X	C CAPACITOR	560pF 50V J	
C3210	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C3301	QETN1H1M-106Z	E CAPACITOR	10uF 50V M	
C3302	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3303	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C3304	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3305	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C3306	QFKC2EK-104Z	MM CAPACITOR	0.1uF 250V K	
C3307	NDC31HJ-561X	C CAPACITOR	560pF 50V J	
C3701	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C3702	QETN1H1M-106Z	E CAPACITOR	10uF 50V M	
C3703	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C3704	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C3707	QFN32DK-103	M CAPACITOR	0.01uF 200V K	
C3708	QFN32DK-103	M CAPACITOR	0.01uF 200V K	
C3709	QETN2CM-105Z	E CAPACITOR	1uF 160V M	
C3710	QETN2CM-226Z	E CAPACITOR	22uF 160V M	
C3711	QETN2CM-226Z	E CAPACITOR	22uF 160V M	
C3712	QFN31HJ-222Z	M CAPACITOR	2200pF 50V J	
C3713	QFN31HJ-222Z	M CAPACITOR	2200pF 50V J	
C3716	QCS32HJ-330Z	C CAPACITOR	33pF 500V J	
C3717	QFN32DK-103	M CAPACITOR	0.01uF 200V K	
C3718	QFN32DK-103	M CAPACITOR	0.01uF 200V K	
C3719	QCB32HK-103	C CAPACITOR	0.01uF 500V K	
C3720	QCB32HK-102Z	C CAPACITOR	1000pF 500V K	
R3009	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K	
R3010	NRSA63D-682X	MG RESISTOR	6.8kΩ 1/16W D	
R3011	NRSA63D-562X	MG RESISTOR	5.6kΩ 1/16W D	

△Ref No.	Part No.	Part Name	Description	Local
R3012	NRSA63D-103X	MG RESISTOR	10kΩ	1/16W D
R3028	QRC122K-102	COMP RESISTOR	1kΩ	1/2W K
R3029	QRE121J-105Y	C RESISTOR	1MΩ	1/2W J
R3030	QRL029J-823	OMF RESISTOR	82kΩ	2W J
R3052	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J
R3053	NRSA63J-682X	MG RESISTOR	6.8kΩ	1/16W J
R3054	NRSA63J-122X	MG RESISTOR	1.2kΩ	1/16W J
R3055	NRSA63J-681X	MG RESISTOR	680Ω	1/16W J
R3101	NRSA63J-821X	MG RESISTOR	820Ω	1/16W J
R3103	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J
R3104	QRL039J-473	OMF RESISTOR	47kΩ	3W J
R3107	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J
R3108	QRC121K-561Z	COMP RESISTOR	560Ω	1/2W K
R3201	NRSA63J-821X	MG RESISTOR	820Ω	1/16W J
R3202	NRSA63J-391X	MG RESISTOR	390Ω	1/16W J
R3203	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J
R3204	QRL039J-473	OMF RESISTOR	47kΩ	3W J
R3207	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J
R3208	QRC121K-561Z	COMP RESISTOR	560Ω	1/2W K
R3301	NRSA63J-821X	MG RESISTOR	820Ω	1/16W J
R3302	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J
R3303	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J
R3304	QRL039J-473	OMF RESISTOR	47kΩ	3W J
R3307	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J
R3308	QRC121K-561Z	COMP RESISTOR	560Ω	1/2W K
R3701	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J
R3702	NRSA63J-273X	MG RESISTOR	27kΩ	1/16W J
R3703	NRSA63J-392X	MG RESISTOR	3.9kΩ	1/16W J
R3704	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J
R3705	NRSA63J-391X	MG RESISTOR	390Ω	1/16W J
R3706	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J
R3707	NRSA63J-392X	MG RESISTOR	3.9kΩ	1/16W J
△R3710	QRJ146J-182X	UNF C RESISTOR	1.8kΩ	1/4W J
R3711	NRSA63J-104X	MG RESISTOR	100kΩ	1/16W J
R3712	NRSA63J-104X	MG RESISTOR	100kΩ	1/16W J
△R3713	QRJ146J-182X	UNF C RESISTOR	1.8kΩ	1/4W J
△R3714	QRJ146J-470X	UNF C RESISTOR	47Ω	1/4W J
△R3715	QRJ146J-470X	UNF C RESISTOR	47Ω	1/4W J
R3716	QRG01GJ-150	OMF RESISTOR	15Ω	1W J
R3719	QRG01GJ-180	OMF RESISTOR	18Ω	1W J
R3720	QRL039J-330	OMF RESISTOR	33Ω	3W J
R3721	QRL039J-330	OMF RESISTOR	33Ω	3W J
R3722	QRL039J-330	OMF RESISTOR	33Ω	3W J
R3724	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J
R3727	NRSA63J-104X	MG RESISTOR	100kΩ	1/16W J
R3728	NRSA63J-104X	MG RESISTOR	100kΩ	1/16W J

L3001	QQL26AJ-102Z	PEAKING COIL	1mH	J
L3002	QQL26AJ-102Z	PEAKING COIL	1mH	J
L3003	QQL26AJ-102Z	PEAKING COIL	1mH	J
L3004	QQL26AJ-102Z	PEAKING COIL	1mH	J
L3101	QQL244K-5R6Z	PEAKING COIL	5.6uH	K
L3201	QQL244K-5R6Z	PEAKING COIL	5.6uH	K
L3301	QQL244K-5R6Z	PEAKING COIL	5.6uH	K

CN300A	QJK002-043024-E	SIN CR C-B WIRE		
CN300E	QJK002-083223-E	SIN CR C-B WIRE		
CN300J	QJK002-063221-E	SIN CR C-B WIRE		
CN30E2	QUB130-38A6AS-E	SIN TWIST WIRE		
K3701	QQR1114-001Z	FERRITE BEADS		
K3702	QQR0582-001Z	FERRITE BEADS		
SG3101	QAF0078-501Z	SURGE ABSORBER	500V	
SG3201	QAF0078-501Z	SURGE ABSORBER	500V	
SG3301	QAF0078-501Z	SURGE ABSORBER	500V	
△SK3001	QNZ0536-002	CRT SOCKET		

FRONT CONTROL P.W. BOARD ASS'Y (SSR-8051A-M2)

△Ref No.	Part No.	Part Name	Description	Local
IC8002	GP1UM281QK	IR DETECT UNIT	38kHz	
Q8001	2SC3928A/QR/-X	TRANSISTOR		
Q8901	2SA562TM/Y/-T	TRANSISTOR		
Q8902	2SC1959/Y/-T	TRANSISTOR		
Q8903	2SA562TM/Y/-T	TRANSISTOR		
Q8904	2SC1959/Y/-T	TRANSISTOR		
Q8905	2SC3928A/QR/-X	TRANSISTOR		
Q8906	2SC3928A/QR/-X	TRANSISTOR		
Q8907	2SC3928A/QR/-X	TRANSISTOR		
Q8908	2SC3928A/QR/-X	TRANSISTOR		
D8001	UDZS5.1B-X	Z DIODE		
D8002	LG22440	LED	POWER	
D8003	UDZS6.8B-X	Z DIODE		
C8002	QETN1EM-476Z	E CAPACITOR	47uF	25V M

△Ref No.	Part No.	Part Name	Description	Local
C8901	NCB31CK-104X	C CAPACITOR	0.1uF	16V K
C8902	NCB31CK-104X	C CAPACITOR	0.1uF	16V K
C8903	QETN1AM-107Z	E CAPACITOR	100uF	10V M
C8904	QETN1AM-107Z	E CAPACITOR	100uF	10V M
R8001	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J
R8002	NRSA63J-152X	MG RESISTOR	1.5kΩ	1/16W J
R8003	NRSA63J-333X	MG RESISTOR	33kΩ	1/16W J
R8004	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
R8005	QRE121J-470Y	C RESISTOR	47Ω	1/2W J
R8901	NRSA63J-562X	MG RESISTOR	5.6kΩ	1/16W J
R8902	NRSA63J-680X	MG RESISTOR	68Ω	1/16W J
R8903	NRSA63J-562X	MG RESISTOR	5.6kΩ	1/16W J
R8904	NRSA63J-680X	MG RESISTOR	68Ω	1/16W J
R8906	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J
R8907	NRSA63J-123X	MG RESISTOR	12kΩ	1/16W J
R8908	NRSA63J-223X	MG RESISTOR	22kΩ	1/16W J
R8909	NRSA63J-123X	MG RESISTOR	12kΩ	1/16W J
R8910	NRSA63J-223X	MG RESISTOR	22kΩ	1/16W J
R8911	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J
R8913	QRL029J-120	OMF RESISTOR	12Ω	2W J
R8914	QRL029J-120	OMF RESISTOR	12Ω	2W J
R8916	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J
R8918	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J
CN800G	QJB003-132213-E	SIN ID C-B WIRE		
S8001	QSW0847-001	TACT SWITCH	POWER	

SIDE CONTROL P.W. BOARD ASS'Y (SSR-8151A-M2)

△Ref No.	Part No.	Part Name	Description	Local
D8101	UDZS10B-X	Z DIODE		
D8102	UDZS10B-X	Z DIODE		
D8103	UDZS10B-X	Z DIODE		
D8111	UDZS10B-X	Z DIODE		
D8112	UDZS10B-X	Z DIODE		
D8113	UDZS10B-X	Z DIODE		
C8101	QETN1HM-106Z	E CAPACITOR	10uF	50V M
C8102	NCB31HK-103X	C CAPACITOR	0.01uF	50V K
C8103	QETN1HM-106Z	E CAPACITOR	10uF	50V M
C8104	QETN1HM-225Z	E CAPACITOR	2.2uF	50V M
C8105	QETN1HM-225Z	E CAPACITOR	2.2uF	50V M
C8106	NCB31HK-102X	C CAPACITOR	1000pF	50V K
C8107	NCB31HK-102X	C CAPACITOR	1000pF	50V K
R8101	NRSA63J-750X	MG RESISTOR	75Ω	1/16W J
R8102	NRSA63J-750X	MG RESISTOR	75Ω	1/16W J
R8103	NRSA63J-750X	MG RESISTOR	75Ω	1/16W J
R8104	NRSA63J-224X	MG RESISTOR	220kΩ	1/16W J
R8105	NRSA63J-224X	MG RESISTOR	220kΩ	1/16W J
R8111	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R8112	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R8113	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R8114	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R8115	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R8116	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R8151	NRSA63J-562X	MG RESISTOR	5.6kΩ	1/16W J
R8152	NRSA63J-123X	MG RESISTOR	12kΩ	1/16W J
R8153	NRSA63J-562X	MG RESISTOR	5.6kΩ	1/16W J
R8154	NRSA63J-123X	MG RESISTOR	12kΩ	1/16W J

CN810F	WJP0086-001A-E	E-SH C WIRE C-B		
CN810K	QJK002-035433-E	SIN CR C-B WIRE		
J8101	QND0084-001	S JACK	INPUT-4 (S)	
J8102	QNN0591-001	PIN JACK	INPUT-4 (V/L/R)	
S8151	QSW0619-003Z	PUSH SWITCH	MENU	
S8152	QSW0619-003Z	PUSH SWITCH	CH-	
S8153	QSW0619-003Z	PUSH SWITCH	CH+	
S8154	QSW0619-003Z	PUSH SWITCH	VOL-	
S8155	QSW0619-003Z	PUSH SWITCH	VOL+	

SD CARD P.W. BOARD ASS'Y (SSR-8551A-M2)

△Ref No.	Part No.	Part Name	Description	Local
IC1001	AU9331C23-MAS-X	IC		
Q1001	2SA1576A/QRS/-X	TRANSISTOR		
C1001	NEHL1CM-106X	E CAPACITOR	10uF	16V M
C1002	NDC31HJ-270X	C CAPACITOR	27pF	50V J
C1003	NDC31HJ-270X	C CAPACITOR	27pF	50V J

△Ref No.	Part No.	Part Name	Description Local
C1004	NDC31HJ-150X	C CAPACITOR	15pF 50V J
C1005	NDC31HJ-150X	C CAPACITOR	15pF 50V J
C1006	NDC31HJ-120X	C CAPACITOR	12pF 50V J
C1007	NDC31HJ-120X	C CAPACITOR	12pF 50V J
C1008	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1009	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1010	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1011	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C1012	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1013	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1014	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1015	NEHL0GM-227X	E CAPACITOR	220uF 4V M
C1016	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1102	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
R1002	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R1003	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1004	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1005	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1006	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R1007	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1008	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1009	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1010	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1014	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1015	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1104	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
RA1001	NRZ0040-103X	NET RESISTOR	10kΩ 1/16W J x4
RA1002	NRZ0040-473X	NET RESISTOR	47kΩ 1/16W J x4
L1001	NQR0603-002X	EMI FILTER	
JK1001	NNZ0058-001X	SD CARD CONNECTOR	
K1001	NQR0499-002X	FERRITE BEADS	
K1002	NQR0499-002X	FERRITE BEADS	
LC1001	NQR0483-007X	EMI FILTER	
X1001	NAX0877-001X	CRYSTAL	12MHz

ATSC TUNER MODULE P.W. BOARD ASS'Y (SSD-2301A-M2)

△Ref No.	Part No.	Part Name	Description Local
△MD001	SSD-2301A-M2	ATSC TUNER MODULE PWB	

PRINTED WIRING BOARD PARTS LIST [AV-30W777/1s]

MAIN P.W. BOARD ASS'Y (SSR-1502A-M2)

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
IC251	CXA2089Q-X	IC			D301	1SS355-X	SI DIODE		
IC301	CXA2150AQ	IC			D302	1SS355-X	SI DIODE		
IC451	BA10393F-XE	IC			D381	UDZS5.1B-X	Z DIODE		
IC471	LM324D-X	IC			D452	1SS355-X	SI DIODE		
IC601	NJM2150AM-X	IC			D453	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
IC621	NJW1143AV-W	IC			D454	1SS355-X	SI DIODE		
IC641	NJM4565M-WE	IC			D681	1SS355-X	SI DIODE		
IC651	LA42072NL	IC			D682	1SS355-X	SI DIODE		
IC701	MN102H60KPM	IC(MCU)			D683	1SS355-X	SI DIODE		
IC702	ATE08-30W777S	IC	(SERVICE)		D684	1SS355-X	SI DIODE		
IC703	S-80828CLNB-G-W	IC			D702	1SS355-X	SI DIODE		
IC704	TPS855	PHOTO CONDUCTOR			D703	1SS355-X	SI DIODE		
IC801	TB1305FG	IC			D704	1SS355-X	SI DIODE		
IC902	BA33BC0T	IC			D705	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
IC941	PQ1CG21H2FZ	IC			D706	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
IC942	PQ1CY1032Z-W	IC			D709	RB501V-40-X	SB DIODE		
IC943	PQ1CY1032Z-W	IC			D710	UDZS3.3B-X	Z DIODE		
IC981	PQ1CY1032Z-W	IC			D712	1SS355-X	SI DIODE		
IC991	PQ120RDA1SSH	IC			D714	1SS355-X	SI DIODE		
Q001	2SK1374-X	MOS FET			D785	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
Q002	2SK1374-X	MOS FET			D786	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
Q241	DTC323TK-X	DIGI TRANSISTOR			D787	UDZS8.2B-X	Z DIODE		
Q242	DTC323TK-X	DIGI TRANSISTOR			D788	UDZS8.2B-X	Z DIODE		
Q243	UN2110-X	DIGI TRANSISTOR			D789	MTZJ5.6A-T2	Z DIODE		
Q251	2SA1530A/QR/-X	TRANSISTOR			D801	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
Q252	2SA1530A/QR/-X	TRANSISTOR			D802	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
Q253	2SA1530A/QR/-X	TRANSISTOR			D803	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
Q301	2SC3928A/QR/-X	TRANSISTOR			D804	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
Q351	2SA1022/BC/-X	TRANSISTOR			D805	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
Q352	2SA1022/BC/-X	TRANSISTOR			D806	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
Q353	2SA1022/BC/-X	TRANSISTOR			D807	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
Q354	2SC3837K/NP/-X	TRANSISTOR			D808	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
Q355	2SC3837K/NP/-X	TRANSISTOR			D901	1SR35-400A-T2	SI DIODE		
Q356	2SC3837K/NP/-X	TRANSISTOR			D940	1SS355-X	SI DIODE		
Q381	2SC3928A/QR/-X	TRANSISTOR			D947	EC31QS04-X	SB DIODE		
Q382	2SA1530A/QR/-X	TRANSISTOR			D948	EC31QS04-X	SB DIODE		
Q401	2SC3928A/QR/-X	TRANSISTOR			D949	EC31QS04-X	SB DIODE		
Q431	2SC3928A/QR/-X	TRANSISTOR			D962	MA3030/H/-X	Z DIODE		
Q432	2SC3928A/QR/-X	TRANSISTOR			D964	1SS355-X	SI DIODE		
Q451	2SC3928A/QR/-X	TRANSISTOR			D965	1SS355-X	SI DIODE		
Q452	2SC3928A/QR/-X	TRANSISTOR			D967	PTZ6.8B-X	Z DIODE		
Q453	2SC3928A/QR/-X	TRANSISTOR			D968	PTZ3.9B-X	Z DIODE		
Q454	2SC3928A/QR/-X	TRANSISTOR			D969	PTZ11B-X	Z DIODE		
Q671	UN2213-X	DIGI TRANSISTOR			D981	EC31QS04-X	SB DIODE		
Q682	2SA1530A/QR/-X	TRANSISTOR			D983	PTZ3.9B-X	Z DIODE		
Q683	UN2213-X	DIGI TRANSISTOR			D984	1SS355-X	SI DIODE		
Q684	2SC3928A/QR/-X	TRANSISTOR			D991	1SS355-X	SI DIODE		
Q701	2SK1374-X	MOS FET			D994	UDZS15B-X	Z DIODE		
Q702	2SK1374-X	MOS FET			C004	NCZ1064-225X	C CAPACITOR	2.2uF	
Q703	2SA1530A/QR/-X	TRANSISTOR			C005	NCZ1064-225X	C CAPACITOR	2.2uF	
Q704	2SA1530A/QR/-X	TRANSISTOR			C008	QETN0JM-228Z	E CAPACITOR	2200uF 6.3V M	
Q705	2SA1530A/QR/-X	TRANSISTOR			C211	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
Q706	UN2213-X	DIGI TRANSISTOR			C212	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
Q707	2SC3928A/QR/-X	TRANSISTOR			C213	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
Q708	2SC3928A/QR/-X	TRANSISTOR			C214	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
Q709	2SA1530A/QR/-X	TRANSISTOR			C215	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
Q710	2SC2785/JHI-T	TRANSISTOR			C221	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
Q711	2SA1530A/QR/-X	TRANSISTOR			C222	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
Q871	2SA1530A/QR/-X	TRANSISTOR			C223	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
Q881	2SA1530A/QR/-X	TRANSISTOR			C224	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
Q891	2SA1530A/QR/-X	TRANSISTOR			C225	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
Q915	UN2213-X	DIGI TRANSISTOR			C231	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
Q916	UN2213-X	DIGI TRANSISTOR			C232	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
Q961	2SC3928A/QR/-X	TRANSISTOR			C233	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
Q962	2SC3928A/QR/-X	TRANSISTOR			C241	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
Q964	2SC3928A/QR/-X	TRANSISTOR			C242	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
Q965	UN2213-X	DIGI TRANSISTOR			C251	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
Q983	UN2213-X	DIGI TRANSISTOR			C252	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
D211	UDZS10B-X	Z DIODE			C253	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
D212	UDZS10B-X	Z DIODE			C254	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
D213	UDZS10B-X	Z DIODE			C255	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
D214	UDZS10B-X	Z DIODE			C256	QENC1EM-475Z	BP E CAPACITOR	4.7uF 25V M	
D215	UDZS10B-X	Z DIODE			C257	QENC1EM-475Z	BP E CAPACITOR	4.7uF 25V M	
D216	UDZS10B-X	Z DIODE			C258	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
D221	UDZS10B-X	Z DIODE			C259	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
D222	UDZS10B-X	Z DIODE			C260	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
D223	UDZS10B-X	Z DIODE			C301	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
D224	UDZS10B-X	Z DIODE			C302	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
D225	UDZS10B-X	Z DIODE			C303	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
D226	UDZS10B-X	Z DIODE			C304	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
D231	UDZS10B-X	Z DIODE			C305	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
D232	UDZS10B-X	Z DIODE			C306	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
D233	UDZS10B-X	Z DIODE			C307	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
					C308	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
					C309	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
					C310	QETN1AM-107Z	E CAPACITOR	100uF 10V M	

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C311	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C722	NCB31AK-105X	C CAPACITOR	1uF 10V K
C312	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C723	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C313	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C724	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C314	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C725	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C315	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C726	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C316	QETN1AM-107Z	E CAPACITOR	100uF 10V M	C729	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C317	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C731	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C318	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C732	QETN1AM-227Z	E CAPACITOR	220uF 10V M
C319	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C733	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C320	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C734	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C321	QETN1HM-105Z	E CAPACITOR	1uF 50V M	C801	NCB31AK-105X	C CAPACITOR	1uF 10V K
C322	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C802	NCB31AK-105X	C CAPACITOR	1uF 10V K
C323	QETN1AM-107Z	E CAPACITOR	100uF 10V M	C803	NCB31AK-105X	C CAPACITOR	1uF 10V K
C324	NCZ1064-225X	C CAPACITOR	2.2uF	C804	NCB31AK-105X	C CAPACITOR	1uF 10V K
C375	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C805	NCB31AK-105X	C CAPACITOR	1uF 10V K
C382	QETN1CM-476Z	E CAPACITOR	47uF 16V M	C806	NCB31AK-105X	C CAPACITOR	1uF 10V K
C401	QETN1HM-107Z	E CAPACITOR	100uF 50V M	C807	NCB31AK-105X	C CAPACITOR	1uF 10V K
C402	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C808	NCB31AK-105X	C CAPACITOR	1uF 10V K
C403	NCB31AK-105X	C CAPACITOR	1uF 10V K	C809	NDC31HJ-120X	C CAPACITOR	12pF 50V J
C404	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C810	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C405	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C811	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C406	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C812	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C407	QFP31HJ-104	PP CAPACITOR	0.1uF 50V J	C813	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C408	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C814	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C409	NCB31AK-684X	C CAPACITOR	0.68uF 10V K	C815	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C451	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C816	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C452	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C817	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C453	NCB31HK-152X	C CAPACITOR	1500pF 50V K	C818	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C457	QFN31HJ-472Z	M CAPACITOR	4700pF 50V J	C819	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C458	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C820	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C470	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C821	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C473	NCB31EK-393X	C CAPACITOR	0.039uF 25V K	C822	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C475	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C871	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C476	QETN1CM-107Z	E CAPACITOR	100uF 16V M	C907	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C477	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C908	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C478	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C941	QETN1VM-477Z	E CAPACITOR	470uF 35V M
C479	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C942	QE2056-128	E CAPACITOR	1200uF 10V M
C481	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C943	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
C482	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C944	QETN1VM-108Z	E CAPACITOR	1000uF 35V M
C601	QENC1EM-475Z	BP E CAPACITOR	4.7uF 25V M	C945	QE2056-128	E CAPACITOR	1200uF 10V M
C602	NCB31HK-332X	C CAPACITOR	3300pF 50V K	C946	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
C603	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	C947	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C604	QETN1HM-226Z	E CAPACITOR	22uF 50V M	C948	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C605	QETN1CM-476Z	E CAPACITOR	47uF 16V M	C949	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M
C606	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C950	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M
C607	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C951	QETN1VM-477Z	E CAPACITOR	470uF 35V M
C611	QENC1EM-475Z	BP E CAPACITOR	4.7uF 25V M	C952	QE2056-128	E CAPACITOR	1200uF 10V M
C612	NCB31HK-332X	C CAPACITOR	3300pF 50V K	C953	QETN0JM-228Z	E CAPACITOR	2200uF 6.3V M
C613	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	C955	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
C621	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C960	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C623	NCB31HK-102X	C CAPACITOR	1000pF 50V K	C961	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C624	NCB31CK-334X	C CAPACITOR	0.33uF 16V K	C972	QETN1VM-477Z	E CAPACITOR	470uF 35V M
C625	NCB31HK-822X	C CAPACITOR	8200pF 50V K	C976	QE2056-128	E CAPACITOR	1200uF 10V M
C627	NCB31CK-105X	C CAPACITOR	1uF 16V K	C982	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M
C628	NCB31CK-105X	C CAPACITOR	1uF 16V K	C984	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
C629	NCB31CK-105X	C CAPACITOR	1uF 16V K	C987	QETN1AM-108Z	E CAPACITOR	1000uF 10V M
C630	NCB31CK-105X	C CAPACITOR	1uF 16V K	C991	QETN1EM-107Z	E CAPACITOR	100uF 25V M
C631	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C992	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C633	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R001	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C634	NCB31CK-334X	C CAPACITOR	0.33uF 16V K	R002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C635	QETN1CM-227Z	E CAPACITOR	220uF 16V M	R003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C636	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C637	NCB31CK-105X	C CAPACITOR	1uF 16V K	R005	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C638	NCB31CK-105X	C CAPACITOR	1uF 16V K	R211	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C639	NCZ1064-225X	C CAPACITOR	2.2uF	R212	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C641	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	R213	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C642	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	R214	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
C643	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R215	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
C651	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	R221	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C652	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	R222	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C653	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R223	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C654	QETN1EM-477Z	E CAPACITOR	470uF 25V M	R224	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
C655	QETM1EM-108	E CAPACITOR	1000uF 25V M	R225	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
C656	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R231	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C661	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	R232	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
C662	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	R233	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
C663	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R241	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C666	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R242	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
C671	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R243	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C683	QETN1EM-107Z	E CAPACITOR	100uF 25V M	R244	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
C684	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R245	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
C685	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R246	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
C701	NCZ1064-225X	C CAPACITOR	2.2uF	R247	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C702	NCZ1064-225X	C CAPACITOR	2.2uF	R251	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C704	NDC31HJ-150X	C CAPACITOR	15pF 50V J	R252	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C705	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R253	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C707	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R254	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C712	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R255	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C720	NCB31CK-105X	C CAPACITOR	1uF 16V K	R256	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C721	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z				

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R257	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R467	NRSA63J-394X	MG RESISTOR	390kΩ 1/16W J
R258	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R468	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J
R259	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R470	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J
R260	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R471	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R261	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R472	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R262	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R473	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R263	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R474	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R264	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R475	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R265	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R476	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R266	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R477	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R267	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R478	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R268	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R479	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R269	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R480	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R270	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R481	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R271	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R482	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R272	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R483	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R273	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R484	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R274	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R485	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R275	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R486	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R276	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R487	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R277	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R488	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R278	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R489	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R279	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R490	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R280	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R493	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R281	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R494	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R301	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R495	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R302	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R496	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R303	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R497	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R305	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R498	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R307	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R601	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R309	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R602	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R311	NRSA63J-335X	MG RESISTOR	3.3MΩ 1/16W J	R603	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R312	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R605	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R313	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R606	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R314	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R609	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R315	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R611	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R317	NRSA63D-472X	MG RESISTOR	4.7kΩ 1/16W D	R612	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R319	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R613	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R320	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R621	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R321	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R624	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R322	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R625	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R351	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	R631	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R352	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R637	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R353	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	R638	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R354	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	R639	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R355	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R640	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R356	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	R641	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R357	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	R642	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R358	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R643	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R359	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	R645	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R363	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R649	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R364	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R651	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R365	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R652	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R366	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R653	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J
R367	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R654	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J
R368	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R661	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R381	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R662	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R383	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R663	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J
R384	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R664	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J
R386	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R671	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R387	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R672	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R401	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R683	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R403	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	R685	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R404	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	R686	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R405	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R687	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R406	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R688	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R407	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	R689	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R408	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R690	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R409	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R691	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R411	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R701	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R412	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R413	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R703	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R431	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R704	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R432	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R705	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R433	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R706	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R434	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R707	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R435	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R708	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R436	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R709	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R451	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R710	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R452	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R711	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R454	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R712	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R455	NRSA63D-473X	MG RESISTOR	47kΩ 1/16W D	R713	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R456	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	R714	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R457	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R715	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R458	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R716	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R459	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	R717	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R460	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R718	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R461	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R719	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R462	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R720	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R463	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	R721	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R722	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R868	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R723	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R869	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R724	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R871	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R725	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R872	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R726	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R873	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R727	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R881	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R728	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R882	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R732	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R883	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R733	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R891	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R734	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R892	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R735	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R893	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R736	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R901	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R737	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R929	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R738	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R930	NRSA63D-123X	MG RESISTOR	12kΩ 1/16W D
R739	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R932	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R740	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R942	NRSA63D-122X	MG RESISTOR	1.2kΩ 1/16W D
R741	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R945	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D
R743	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R946	NRSA63D-333X	MG RESISTOR	33kΩ 1/16W D
R744	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	R949	NRSA63D-122X	MG RESISTOR	1.2kΩ 1/16W D
R745	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R950	NRSA63D-822X	MG RESISTOR	8.2kΩ 1/16W D
R746	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R951	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R747	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R952	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R748	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R955	NRSA63D-682X	MG RESISTOR	6.8kΩ 1/16W D
R749	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R958	NRSA63D-302X	MG RESISTOR	3kΩ 1/16W D
R750	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R959	NRSA63D-182X	MG RESISTOR	1.8kΩ 1/16W D
R751	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R961	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R752	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R962	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R753	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R963	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R754	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	R964	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R755	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R965	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R756	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R966	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R757	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R967	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R759	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R968	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R760	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R969	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R762	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R983	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R763	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R985	NRSA63D-302X	MG RESISTOR	3kΩ 1/16W D
R764	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	R987	NRSA63D-302X	MG RESISTOR	3kΩ 1/16W D
R765	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R988	NRSA63D-153X	MG RESISTOR	15kΩ 1/16W D
R766	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R989	NRSA63D-123X	MG RESISTOR	12kΩ 1/16W D
R767	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R991	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R769	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R992	QRT039J-R68	MF RESISTOR	0.68Ω 3W J
R770	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R993	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R772	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	L001	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
R773	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	L003	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
R774	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	L701	NQL092K-R10X	COIL	0.1uH K
R775	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	L801	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R776	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	L802	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R777	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	L871	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R778	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	L941	QQR1401-001	CHOKE COIL	
R780	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	L942	QQR1401-001	CHOKE COIL	
R781	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	L943	QQL26AK-330Z	CHOKE COIL	33uH K
R782	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	L944	QQL26AK-330Z	CHOKE COIL	33uH K
R783	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	L945	QQL26AK-100Z	CHOKE COIL	10uH K
R784	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	L946	QQL26AK-220Z	CHOKE COIL	22uH K
R785	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	L947	QQR1401-001	CHOKE COIL	
R788	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L950	QQL26AK-470Z	CHOKE COIL	47uH K
R794	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	L951	QQL26AK-470Z	CHOKE COIL	47uH K
R795	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	L952	QQL26AK-470Z	CHOKE COIL	47uH K
R796	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	L956	QQL26AK-100Z	CHOKE COIL	10uH K
R797	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	L983	QQL26AK-470Z	CHOKE COIL	47uH K
R798	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	L984	QQR1401-001	CHOKE COIL	
R799	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	L985	QQL26AK-100Z	CHOKE COIL	10uH K
R801	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	CN001	QGB1506L1-16	CONNECTOR	B-B (1-16)
R802	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	CN002	QGB1506L1-16	CONNECTOR	B-B (1-16)
R803	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	CN003	QGB1506L1-16	CONNECTOR	B-B (1-16)
R804	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	CN004	QGB1509J1-55	CONNECTOR	B-B (1-55)
R805	NRS12BJ-151W	MG RESISTOR	150Ω 1/2W J	GN1	NNZ0159-001X	EARTH TERMINAL	
R806	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	GN2	NNZ0159-001X	EARTH TERMINAL	
R808	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	GN3	NNZ0159-001X	EARTH TERMINAL	
R809	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	J201	QNZ0454-001	AV JACK	INPUT-3(S/V/L/R)
R810	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	J202	QNZ0454-001	AV JACK	INPUT-1(S/V/L/R)
R811	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	J203	QNN0349-001	PIN JACK	INPUT-2(V/L/R)
R812	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	J241	QNN0348-001	PIN JACK	AUDIO OUT
R851	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	J801	QNN0349-002	PIN JACK	INPUT-1(COMPLEMENT)
R852	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	J802	QNN0349-002	PIN JACK	INPUT-2(COMPLEMENT)
R853	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K001	NQR0325-003X	FERRITE BEADS	
R854	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K004	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R855	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	K701	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R856	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K702	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R857	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K703	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R858	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	K943	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
R859	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K944	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
R861	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	LC871	QQR1199-002	EMI FILTER	
R862	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	LC881	QQR1199-002	EMI FILTER	
R863	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	LC891	QQR1199-002	EMI FILTER	
R864	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	SL701	NAX0613-001X	C RESONATOR	16.000MHz
R865	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	X401	QAX0900-001	C RESONATOR	2.696MHz
R866	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	X801	NAX0787-001X	CRISTAL	3.579540MHz
R867	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J				

POWER & DEF P.W. BOARD ASS'Y (SSR-2501A-M2)

REFER TO PARTS LIST IN PAGE 3-9 FOR THIS P.W. BOARD.

CRT SOCKET P.W. BOARD ASS'Y (SSR-3051A-M2)

REFER TO PARTS LIST IN PAGE 3-11 FOR THIS P.W. BOARD.

**FRONT CONTROL P.W. BOARD ASS'Y
(SSR-8051A-M2)**

REFER TO PARTS LIST IN PAGE 3-12 FOR THIS P.W. BOARD.

SIDE CONTROL P.W. BOARD ASS'Y (SSR-8151A-M2)

REFER TO PARTS LIST IN PAGE 3-12 FOR THIS P.W. BOARD.

SD CARD P.W. BOARD ASS'Y (SSR-8551A-M2)

REFER TO PARTS LIST IN PAGE 3-12 FOR THIS P.W. BOARD.

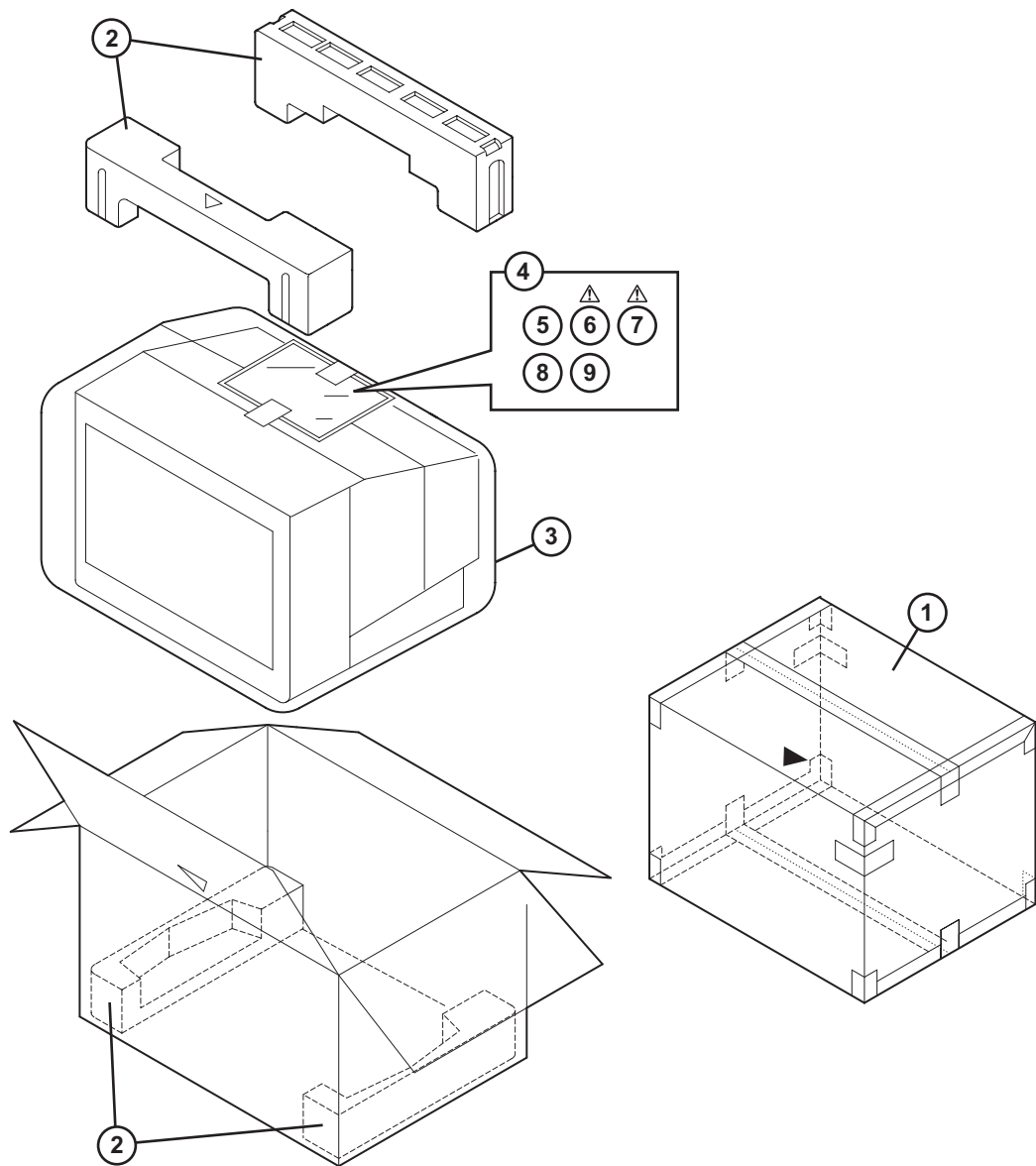
**ATSC TUNER MODULE P.W. BOARD ASS'Y
(SSD-2301A-M2)**

REFER TO PARTS LIST IN PAGE 3-13 FOR THIS P.W. BOARD.

REMOTE CONTROL UNIT PARTS LIST (RM-C1272G-1H)

△	Ref.No.	Part No.	Part Name	Description	Local
		UR77EC0603	BATTERY COVER		

PACKING



PACKING PARTS LIST

△	Ref.No.	Part No.	Part Name	Description	Local
	1	GQ10009-037A-A	PACKING CASE	4pcs in 1set	
	2	GQ10076-001C-A	CUSHION ASSY		
	3	GQ30092-003A-A	POLY BAG		
	4	QPA02503505	POLY BAG	25cm x 35cm	
	5	RM-C1272G-1H	REMOTE CONTROL UNIT		
△	6	LCT2034-001A-A	INST BOOK	English	
△	7	LCT2035-001A-A	INST BOOK	French	
	8	-----	BATTERY	R6P/AA(x2)	
	9	BT-51041-1A	REGIST. CARD		AV-30W767S
	9	BT-51034-2Q	REGIST. CARD		AV-30W777S